AIWA

CXN-V70

MODEL

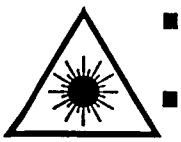
SERVICE MANUAL

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainituilla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION

L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

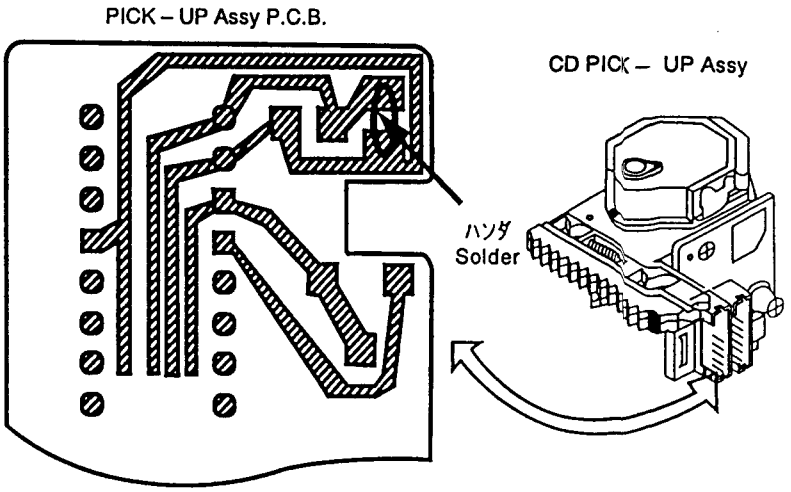
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use the clothes do not touch the diode.

1) After the connection, remove solder shown in figure below.



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	85-NF5-634-010		IC,LC866432V-5751
	87-070-083-010		IC,GP1U281X
	87-001-904-010		IC,STK4192-MK2
	87-070-121-010		IC,HA12185NT
	87-070-232-010		IC,BA3834S
	87-017-375-080		IC,TC4094BF
	87-001-874-010		IC,HA12134A
	87-017-673-010		IC,BA3837
	87-017-449-010		IC,XR-1071CP
	87-017-374-010		IC,TC4094BP
	87-017-022-080		IC,NJM2068M-D(T1)
	87-027-666-010		IC,TC4052BP
	87-070-184-040		IC,M65846FP-600D
	87-017-787-010		IC,M62412P
	87-070-127-010		IC,LC72131
	87-002-272-080		IC,TC4052BF
	87-017-714-010		IC,LA1836
TRANSISTOR			
	87-026-463-080		TR,2SA933S
	89-213-702-010		TR,2SB1370E
	89-109-352-080		TR,2SA935Q
	87-026-610-080		TR,KTC3198GR
	89-327-125-080		C-TR,2SC2712GR
	89-332-665-080		TR,2SC3266GR
	89-337-221-380		C-TR,2SC3722K
	89-111-625-080		C-TR,2SA1162GR
	87-026-210-080		C-TR,DTC144EK
	89-113-187-880		TR,2SA1318TU
	87-026-235-080		C-TR,DTC114EK
	89-333-266-080		C-TR,2SC3326B
	87-026-211-080		C-TR,DTA144EK
	87-026-232-080		C-TR,DTA144WK
	87-026-658-010		FET,2SJ176
	89-510-940-010		FET,2SK1094
	89-322-405-080		TR,2SC2240GR
	87-026-226-080		C-TR,DTA143EK
	89-503-655-680		FET,2SK365GR BL
	89-112-965-080		TR,2SA1296GR
	89-333-317-080		TR,2SC3331T
	89-327-126-080		C-TR,2SC2712BL
	89-109-521-080		TR,2SA952K
	89-406-555-080		TR,2SD655E
	87-026-214-080		TR,DTA114YS
	89-327-143-080		C-TR,2SC2714(O)
	89-505-434-580		C-FET,2SK543(4/5)
DIODE			
	87-002-225-010		DIODE,DBF 40C-K10
	87-017-978-080		DIODE,1N4003
	87-020-027-080		C-DIODE,1SS184
	87-020-125-080		C-DIODE,1SS181
	87-020-465-080		DIODE,1SS133 T-72
	87-017-174-080		ZENER,HZS11A3L
	87-017-146-080		ZENER,HZS30-2
	87-020-691-080		DIODE,1SS132
	87-001-731-080		ZENER,HZS6C2L
	87-017-091-080		ZENER,HZS5C1
	87-020-331-080		C-DIODE,DAN202K
	87-001-290-080		ZENER,HZS6B1L
	87-001-559-080		DIODE1SS131 (T-72)
	87-070-178-090		DIODE,1N5402-BD54
	87-001-408-080		DIODE,GP 15B
	87-017-086-080		ZENER,HZS5A2
	87-020-330-080		C-DIODE,DAP202K
	87-017-148-080		ZENER,HZS6A1L
MAIN C.B			
C101	87-010-453-090		CAP,E 4700-25 SME
C102	87-010-453-090		CAP,E 4700-25 SME
C104	87-010-235-080		CAP,E 470-16 SME
C105	87-010-381-080		CAP,E 330-16 SME
C106	87-015-914-089		CAP,E 47-100
C107	87-010-405-080		CAP,E 10-50 SME
C108	87-010-407-080		CAP,E 33-50 SME
C109	87-010-263-080		CAP,E 100-10 SME
C112	87-010-382-080		CAP,E 22-25 SME
C113	87-010-403-080		CAP,E 3.3-50 SME
C115	87-016-247-080		C-CAP,0.1-50 F
C116	87-012-140-080		C-CAP,S 470P-50 CH
C117	87-012-368-080		C-CAP,S 0.1-50 F
C118	87-012-368-080		C-CAP,S 0.1-50 F
C119	87-012-368-080		C-CAP,S 0.1-50 F
C126	87-016-520-090		CAP,E 3300-65
C127	87-016-520-090		CAP,E 3300-65
C128	87-012-368-080		C-CAP,S 0.1-50 F
C129	87-012-368-080		C-CAP,S 0.1-50 F
C130	87-012-368-080		C-CAP,S 0.1-50 F
C131	87-012-368-080		C-CAP,S 0.1-50 F
C152	87-010-260-080		CAP,E 47-25 SME
C201	87-010-190-080		C-CAP,S 0.01-50 F
C202	87-018-211-080		CAP,TC-U 0.01-5(
C203	87-010-190-080		C-CAP,S 0.01-50 F
C204	87-018-211-080		CAP,TC-U 0.01-5(
C213	87-010-401-080		CAP,E 1-50 SME
C214	87-010-401-080		CAP,E 1-50 SME
C215	87-010-184-080		C-CAP,S 3300P-5(B
C216	87-010-184-080		C-CAP,S 3300P-5(B
C217	87-010-382-080		CAP,E 22-25 SME
C218	87-010-382-080		CAP,E 22-25 SME
C219	87-010-213-080		C-CAP,S 0.015-5(B
C220	87-010-213-080		C-CAP,S 0.015-5(B
C221	87-010-400-080		CAP,E 0.47-50 SME
C222	87-010-400-080		CAP,E 0.47-50 SME
C223	87-010-260-080		CAP,E 47-25 SME
C224	87-010-260-080		CAP,E 47-25 SME
C225	87-010-260-080		CAP,E 47-25 SME
C226	87-010-260-080		CAP,E 47-25 SME
C227	87-018-209-080		CAP,TC-U 0.1-50 F
C228	87-018-209-080		CAP,TC-U 0.1-50 F
C231	87-010-196-080		C-CAP,S 0.1-25 E
C243	87-010-154-080		C-CAP,S 10P-50 CH
C244	87-015-879-080		C-CAP,10P CH
C245	87-018-208-080		CAP,TC-U 0.047-5(F
C250	87-010-197-080		C-CAP,S 0.01-25 E
C251	87-010-766-080		CAP,E 330-63
C297	87-010-404-080		CAP,E 4.7-50 SME
C298	87-010-404-080		CAP,E 4.7-50 SME
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-155-080		C-CAP,S 180P-50 CH
C306	87-012-155-080		C-CAP,S 180P-50 CH
C307	87-010-196-080		C-CAP,S 0.1-25 E
C308	87-010-196-080		C-CAP,S 0.1-25 E
C313	87-010-181-080		C-CAP,S 1800P-5CB
C314	87-010-181-080		C-CAP,S 1800P-5CB
C315	87-010-179-080		C-CAP,S 1200P-5CB
C316	87-010-179-080		C-CAP,S 1200P-5CB
C317	87-012-142-080		C-CAP,S 0.33-16 E
C318	87-012-142-080		C-CAP,S 0.33-16 E
C319	87-012-141-080		C-CAP,S 0.22-16 E
C320	87-012-141-080		C-CAP,S 0.22-16 E
C321	87-010-196-080		C-CAP,S 0.1-25 E

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C322	87-010-196-080		C-CAP,S 0.1-25 F
C324	87-010-260-080		CAP,E 47-25 SME
C325	87-010-370-080		CAP,E 330-6.3 SME
C326	87-010-196-080		C-CAP,S 0.1-25 F
C332	87-010-196-080		C-CAP,S 0.1-25 F
C335	87-010-805-080		C-CAP,S 1-16 F
C336	87-010-805-080		C-CAP,S 1-16 F
C351	87-012-154-080		C-CAP,S 150P-50 CH
C352	87-012-154-080		C-CAP,S 150P-50 CH
C451	87-012-140-080		C-CAP,S 470P-50 CH
C452	87-012-140-080		C-CAP,S 470P-50 CH
C453	87-010-178-080		C-CAP,S 1000P-50 B
C454	87-010-178-080		C-CAP,S 1000P-50 B
C455	87-010-178-080		C-CAP,S 1000P-50 B
C456	87-010-260-080		CAP,E 47-25 SME
C457	87-010-197-080		C-CAP,S 0.01-25 B
C458	87-010-183-080		C-CAP,S 2700P-50 B
C459	87-010-183-080		C-CAP,S 2700P-50 B
C460	87-010-183-080		C-CAP,S 2700P-50 B
C470	87-010-196-080		C-CAP,S 0.1-25 F
C501	87-010-177-080		C-CAP,S 820P-50 SL
C502	87-010-177-080		C-CAP,S 820P-50 SL
C503	87-012-155-080		C-CAP,S 180P-50 CH
C504	87-012-155-080		C-CAP,S 180P-50 CH
C515	87-010-545-080		CAP,E 0.22-50 SME
C516	87-010-545-080		CAP,E 0.22-50 SME
C519	87-010-196-080		C-CAP,S 0.1-25 F
C521	87-010-197-080		C-CAP,S 0.01-25 B
C522	87-010-318-080		C-CAP,S 47P-50 CH
C523	87-010-197-080		C-CAP,S 0.01-25 B
C524	87-010-402-080		CAP,E 2.2-50 SME
C530	87-010-194-080		C-CAP,S 0.047-25 F
C531	87-010-545-080		CAP,E 0.22-50 SME
C532	87-010-382-080		CAP,E 22-25 SME
C533	87-010-404-080		CAP,E 4.7-50 SME
C534	87-010-404-080		CAP,E 4.7-50 SME
C535	87-010-404-080		CAP,E 4.7-50 SME
C536	87-010-404-080		CAP,E 4.7-50 SME
C537	87-018-209-080		CAP,TC-U 0.1-50 F
C538	87-010-384-080		CAP,E 100-25 SME
C539	87-012-142-080		C-CAP,S 0.33-16 F
C540	87-010-196-080		C-CAP,S 0.1-25 F
C541	87-010-196-080		C-CAP,S 0.1-25 F
C543	87-010-544-080		CAP,E 0.1-50
C544	87-010-544-080		CAP,E 0.1-50
C545	87-010-400-080		CAP,E 0.47-50 SME
C546	87-010-400-080		CAP,E 0.47-50 SME
C547	87-010-213-080		C-CAP,S 0.015-50 B
C548	87-010-213-080		C-CAP,S 0.015-50 B
C549	87-018-209-080		CAP,TC-U 0.1-50 F
C550	87-010-183-080		C-CAP,S 2700P-50 B
C553	87-010-182-080		C-CAP,S 2200P-50 B
C554	87-010-182-080		C-CAP,S 2200P-50 B
C557	87-010-178-080		C-CAP,S 1000P-50 B
C558	87-010-178-080		C-CAP,S 1000P-50 B
C597	87-010-404-080		CAP,E 4.7-50 SME
C598	87-010-404-080		CAP,E 4.7-50 SME
C601	87-010-401-080		CAP,E 1-50 SME
C602	87-010-405-080		CAP,E 10-50 SME
C603	87-010-101-080		CAP,E 220-16 SME
C605	87-010-178-080		C-CAP,S 1000P-50 B
C606	87-010-178-080		C-CAP,S 1000P-50 B
C607	87-010-404-080		CAP,E 4.7-50 SME
C608	87-010-404-080		CAP,E 4.7-50 SME
C609	87-010-404-080		CAP,E 4.7-50 SME
C610	87-010-404-080		CAP,E 4.7-50 SME
C611	87-010-177-080		C-CAP,S 820P-50 SL
C612	87-010-177-080		C-CAP,S 820P-50 SL
C613	87-010-404-080		CAP,E 4.7-50 SME
C614	87-010-404-080		CAP,E 4.7-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C615	87-010-400-080		CAP,E 0.47-50 SME
C616	87-010-400-080		CAP,E 0.47-50 SME
C617	87-010-197-080		C-CAP,S 0.01-25 B
C618	87-010-197-080		C-CAP,S 0.01-25 B
C619	87-010-184-080		C-CAP,S 3300P-50 B
C620	87-010-184-080		C-CAP,S 3300P-50 B
C621	87-012-155-080		C-CAP,S 180P-50 CH
C622	87-012-155-080		C-CAP,S 180P-50 CH
C623	87-010-405-080		CAP,E 10-50 SME
C624	87-010-405-080		CAP,E 10-50 SME
C630	87-010-405-080		CAP,E 10-50 SME
C631	87-010-401-080		CAP,E 1-50 SME
C641	87-010-196-080		C-CAP,S 0.1-25 F
C642	87-010-196-080		C-CAP,S 0.1-25 F
C650	87-010-316-080		C-CAP,S 33P-50 CH
C651	87-010-316-080		C-CAP,S 33P-50 CH
C701	87-010-381-080		CAP,E 330-16 SME
C702	87-010-404-080		CAP,E 4.7-50 SME
C703	87-010-197-080		C-CAP,S 0.01-25 B
C704	87-010-197-080		C-CAP,S 0.01-25 B
C711	87-010-263-080		CAP,E 100-10 SME
C712	87-010-196-080		C-CAP,S 0.1-25 F
C722	87-010-311-080		C-CAP,S 12P-50 CH
C723	87-010-178-080		C-CAP,S 1000P-50 B
C725	87-010-178-080		C-CAP,S 1000P-50 B
C727	87-010-196-080		C-CAP,S 0.1-25 F
C728	87-010-248-080		CAP,E 220-10 SME
C732	87-018-134-080		CAP,TC-U 0.01-16 Y
C770	87-010-405-080		CAP,E 10-50 SME
C771	87-010-405-080		CAP,E 10-50 SME
C772	87-010-194-080		C-CAP,S 0.047-25 F
C773	87-010-196-080		C-CAP,S 0.1-25 F
C774	87-010-263-080		CAP,E 100-10 SME
C775	87-010-405-080		CAP,E 10-50 SME
C776	87-010-197-080		C-CAP,S 0.01-25 B
C777	87-010-400-080		CAP,E 0.47-50 SME
C778	87-010-401-080		CAP,E 1-50 SME
C779	87-010-401-080		CAP,E 1-50 SME
C780	87-010-197-080		C-CAP,S 0.01-25 B
C781	87-010-405-080		CAP,E 10-50 SME
C782	87-010-405-080		CAP,E 10-50 SME
C787	87-010-184-080		C-CAP,S 3300P-50 B
C788	87-010-184-080		C-CAP,S 3300P-50 B
C789	87-010-179-080		C-CAP,S 1200P-50 B
C790	87-010-179-080		C-CAP,S 1200P-50 B
C791	87-010-401-080		CAP,E 1-50 SME
C792	87-010-182-080		C-CAP,S 2200P-50 B
C793	87-010-189-080		C-CAP,S 8200P-50 B
C794	87-010-408-080		CAP,E 47-50 SME
C795	87-010-194-080		C-CAP,S 0.047-25 F
C796	87-010-403-080		CAP,E 3.3-50 SME
C797	87-010-405-080		CAP,E 10-50 SME
C798	87-010-196-080		C-CAP,S 0.1-25 F
C800	87-018-209-080		CAP,TC-U 0.1-50 F
C812	87-018-134-080		CAP,TC-U 0.01-16 Y
C816	87-018-134-080		CAP,TC-U 0.01-16 Y
C817	87-010-197-080		C-CAP,S 0.01-25 B
C818	87-010-197-080		C-CAP,S 0.01-25 B
C819	87-010-197-080		C-CAP,S 0.01-25 B
C820	87-010-260-080		CAP,E 47-25 SME
C821	87-010-197-080		C-CAP,S 0.01-25 B
C822	87-010-197-080		C-CAP,S 0.01-25 B
C823	87-010-197-080		C-CAP,S 0.01-25 B
C824	87-018-209-080		CAP,TC-U 0.1-50 F
C825	87-015-819-080		CHIP CAP 0.01
C826	87-010-196-080		C-CAP,S 0.1-25 F
C827	87-010-196-080		C-CAP,S 0.1-25 F
C828	87-010-197-080		C-CAP,S 0.01-25 B
C829	87-010-197-080		C-CAP,S 0.01-25 B
C830	87-015-819-080		CHIP CAP 0.01

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C831	87-010-197-080		C-CAP,S 0.01-25 B
C835	87-010-197-080		C-CAP,S 0.01-25 B
C840	87-010-197-080		C-CAP,S 0.01-25 B
C926	87-010-196-080		C-CAP,S 0.1-25 F
C941	87-010-197-080		C-CAP,S 0.01-25 B
C942	87-010-311-080		C-CAP,S 12P-50 CH
C944	87-010-154-080		C-CAP,S 10P-50 CH
C946	87-014-050-080		CAP,PP 510P-100 J
C947	87-010-401-080		CAP,E 1-50 SME
C948	87-010-196-080		C-CAP,S 0.1-25 F
C949	87-010-197-080		C-CAP,S 0.01-25 B
C951	87-010-401-080		CAP,E 1-50 SME
C983	87-010-544-080		CAP,E 0.1-50
C987	87-015-819-080		CHIP CAP 0.01
C988	87-015-785-080		C-CAP,0.1-25 F
C990	87-010-197-080		C-CAP,S 0.01-25 B
C993	87-010-197-080		C-CAP,S 0.01-25 B
C995	87-010-197-080		C-CAP,S 0.01-25 B
CF801	87-008-423-010		CF,SFE10.7 MS3G-A
CF802	82-785-747-010		CF,MS2 GHY,R
FFE802	85-NF5-604-010		FE PACK 4(AL)
FT104	85-NF5-617-010		CABLE,FFC 6P-1.25
J250	87-099-678-010		JACK,6.3 W/S BLK
J253	87-009-621-010		JACK,PIN 1P BLK
J254	87-033-227-010		TERMINAL,SP 4P R (Z)
J652	82-MA2-631-010		JACK,PIN 4P RVS
J801	87-033-230-010		TERMINAL,ANT AJ-2016
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L403	81-598-635-010		COIL,TRAP BIAS
L404	81-598-635-010		COIL,TRAP BIAS
L451	87-007-336-010		COIL,OSC 85K BIAS
L701	81-631-643-010		COIL,1 POLE MPX
L702	81-631-643-010		COIL,1 POLE MPX
L741	87-006-253-010		COIL,FM DET N
L742	82-NT1-659-010		FLTR,CFAZ-450 2NT
L770	87-003-102-080		COIL,10UH
L832	87-003-098-080		COIL,2.2UH
L941	87-006-208-010		COIL,ANT LW
L942	87-007-305-010		COIL,OSC LW S
L981	81-MX4-619-010		AM PACK 4
R105	87-022-050-080		RESIS,METAL 1W-0.22J
R106	87-022-050-080		RESIS,METAL 1W-0.22J
R203	87-022-619-080		RES,M/F 0.47-3W J
R204	87-022-619-080		RES,M/F 0.47-3W J
R205	87-022-619-080		RES,M/F 0.47-3W J
R206	87-022-619-080		RES,M/F 0.47-3W J
RY101	87-045-361-010		RELAY,DH12D2-OS(M)-2
RY102	87-045-382-010		RELAY,OUAZ-SH-112L
SFR301	87-024-174-080		SFR,33K DIA6 V
SFR302	87-024-174-080		SFR,33K DIA6 V
SFR303	87-024-174-080		SFR,33K DIA6 V
SFR304	87-024-174-080		SFR,33K DIA6 V
SFR305	87-024-175-080		SFR,47K DIA6 V
SFR306	87-024-175-080		SFR,47K DIA6 V
SFR451	87-024-175-080		SFR,47K DIA6 V
SFR452	87-024-175-080		SFR,47K DIA6 V
SFR722	87-024-171-080		SFR,4.7K DIA6 V
TC701	87-011-253-080		TRIMER,30P LAR
TC942	87-011-253-080		TRIMER,30P LAR
VR651	82-NF5-660-010		VR,50K BX2 RK14K 12A
W101	85-NF5-628-010		F-CABLE,7P-2.5
X703	84-508-618-010		VIB,CER CSB 456 F15
X721	87-030-163-010		VIB,XTAL 7.2MHZ(NDK)

FRONT C.B

C201	87-010-404-040		CAP,E 4.7-50 SME
C202	87-010-404-040		CAP,E 4.7-50 SME
C203	87-010-408-040		CAP-E 47-50 SME
C204	87-010-401-040		CAP,E 1-50 SME
C205	87-010-555-040		CAP,E 100-10 GAS
C206	87-010-550-040		CAP,E 100-6.3 GAS
C207	87-010-494-040		CAP,E 1-50 GAS
C208	87-010-196-080		C-CAP,S 0.1-25 F
C209	87-010-550-040		CAP,E 100-6.3 GAS
C212	87-010-560-040		CAP,E 10-50 GAS
C213	87-010-196-080		C-CAP,S 0.1-25 F
C214	87-010-196-080		C-CAP,S 0.1-25 F
C215	87-010-196-080		C-CAP,S 0.1-25 F
C220	87-010-317-080		C-CAP,S 39P-50 CH
C221	87-010-315-080		C-CAP,S 27P-50 CH
C222	87-010-318-080		C-CAP,S 47P-50 CH
C223	87-010-178-080		C-CAP,S 1000P-50 B
C250	87-010-178-080		C-CAP,S 1000P-50 B
C381	87-010-196-080		C-CAP,S 0.1-25 F
C382	87-010-196-080		C-CAP,S 0.1-25 F
C383	87-010-196-080		C-CAP,S 0.1-25 F
C384	87-010-196-080		C-CAP,S 0.1-25 F
C385	87-010-322-080		C-CAP,S 100P-50 CH
C389	87-010-196-080		C-CAP,S 0.1-25 F
C401	87-010-196-080		C-CAP,S 0.1-25 F
C402	87-010-196-080		C-CAP,S 0.1-25 F
C501	87-010-060-080		CAP,E 100-16 7L
C601	87-010-405-040		CAP,E 10-50 SME
C602	87-010-176-080		C-CAP,S 680P-50 SL
C603	87-010-196-080		C-CAP,S 0.1-25 F
C605	87-010-319-080		C-CAP,S 56P-50 CH
C606	87-010-494-040		CAP,E 1-50 GAS
C607	87-010-196-080		C-CAP,S 0.1-25 F
C608	87-010-322-080		C-CAP,S 100P-50 CH
C609	87-010-491-040		CAP,E 0.22-50 GAS
C610	87-012-155-080		C-CAP,S 180P-50 CH
C611	87-010-406-040		CAP,E 22-50 SME
C614	87-010-555-040		CAP,E 100-10 GAS
C615	87-010-401-040		CAP,E 1-50 SME
C616	87-018-209-080		CAP,TC-U 0.1-50 F
C622	87-015-785-080		C-CAP,0.1-25 F
C646	87-010-196-080		C-CAP,S 0.1-25 F
C647	87-010-180-080		C-CAP,S 1500P-50 B
C648	87-012-156-089		C-CAP,S 220P-50 CH
C650	87-010-152-080		C-CAP,S 8P-50 CH
C651	87-010-152-080		C-CAP,S 8P-50 CH
C653	87-012-358-080		C-CAP S 0.47-10 FZ
C654	87-010-178-080		C-CAP,S 1000P-50 B
C656	87-010-196-080		C-CAP,S 0.1-25 F
C657	87-010-555-040		CAP,E 100-10 GAS
C659	87-010-184-080		C-CAP,S 3300P-50 B
C660	87-010-426-080		C-CAP,S 0.012-25 B
C661	87-012-358-080		C-CAP S 0.47-10 FZ
C663	87-010-555-040		CAP,E 100-10 GAS
C664	87-012-141-080		C-CAP,S 0.22-16 F
C666	87-010-179-080		C-CAP,S 1200P-50 B
C667	87-010-177-080		C-CAP,S 820P-50 SL
C669	87-010-497-040		CAP,E 4.7-35 5L
C670	87-010-497-040		CAP,E 4.7-35 5L
C671	87-010-426-080		C-CAP,S 0.012-25 B
C672	87-018-209-080		CAP,TC-U 0.1-50 F
C701	87-010-177-080		C-CAP,S 820P-50 SL
C702	87-010-177-080		C-CAP,S 820P-50 SL
C710	87-010-553-040		CAP,E 47-16 GAS
C711	87-010-194-080		C-CAP,S 0.047-25 F
C712	87-010-194-080		C-CAP,S 0.047-25 F
C713	87-010-195-080		C-CAP,S 0.068-25 F
C714	87-010-195-080		C-CAP,S 0.068-25 F
C715	87-010-186-080		C-CAP,S 4700P-50 B
C716	87-010-186-080		C-CAP,S 4700P-50 B
C717	87-010-497-040		CAP,E 4.7-35 5L
C718	87-010-497-040		CAP,E 4.7-35 5L
C721	87-010-495-040		CAP,E 2.2-50 GAS

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C722	87-010-495-040		CAP,E 2.2-50 GAS
FB100	87-008-372-080		FLTR,EMI BL 01RN1
FL101	85-NF5-630-010		FL,BJ350GK
FT101	85-NF5-615-010		CABLE,FFC 15P-1.25
FT102	85-NF5-618-010		CABLE,FFC 13P-1.25
FT103	85-NF5-616-010		CABLE,FFC 6P-1.25
J601	82-NF7-630-010		JACK,3.5 MO
J621	82-NF7-630-010		JACK,3.5 MO
L650	87-005-487-080		COIL,150UH J FLR50
LED401	87-070-281-080		LED,SLZ736A-25-S-T1
LED402	87-070-281-080		LED,SLZ736A-25-S-T1
LED403	87-070-281-080		LED,SLZ736A-25-S-T1
LED404	87-070-281-080		LED,SLZ736A-25-S-T1
LED405	87-070-281-080		LED,SLZ736A-25-S-T1
LED406	87-070-281-080		LED,SLZ736A-25-S-T1
LED407	87-070-199-080		LED,SLP738F-81-S-T1
LED408	87-070-199-080		LED,SLP738F-81-S-T1
LED409	87-070-199-080		LED,SLP738F-81-S-T1
LED410	87-070-199-080		LED,SLP738F-81-S-T1
LED411	87-070-199-080		LED,SLP738F-81-S-T1
LED412	87-070-199-080		LED,SLP738F-81-S-T1
LED413	87-070-199-080		LED,SLP738F-81-S-T1
LED414	87-070-199-080		LED,SLP738F-81-S-T1
LED420	87-070-201-080		LED,SLP9118C-51-S-T1
LED421	87-070-201-080		LED,SLP9118C-51-S-T1
LED422	87-070-201-080		LED,SLP9118C-51-S-T1
LED423	87-070-201-080		LED,SLP9118C-51-S-T1
LED437	87-070-278-010		LED,SLZ738A-24-S
LED438	87-070-290-010		LED,SLZ936C-30-S
LED439	87-070-278-010		LED,SLZ738A-24-S
LED440	87-070-278-010		LED,SLZ738A-24-S
LED441	87-070-290-010		LED,SLZ936C-30-S
LED442	87-070-278-010		LED,SLZ738A-24-S
S301	87-036-397-080		SW,TACT SKQNAB
S302	87-036-397-080		SW,TACT SKQNAB
S303	87-036-397-080		SW,TACT SKQNAB
S304	87-036-397-080		SW,TACT SKQNAB
S305	87-036-397-080		SW,TACT SKQNAB
S321	87-036-397-080		SW,TACT SKQNAB
S322	87-036-397-080		SW,TACT SKQNAB
S323	87-036-397-080		SW,TACT SKQNAB
S324	87-036-397-080		SW,TACT SKQNAB
S325	87-036-397-080		SW,TACT SKQNAB
S326	87-036-397-080		SW,TACT SKQNAB
S327	87-036-170-080		SW,TACT
S328	87-036-170-080		SW,TACT
S329	87-036-170-080		SW,TACT
S330	87-036-397-080		SW,TACT SKQNAB
S331	87-036-397-080		SW,TACT SKQNAB
S332	87-036-397-080		SW,TACT SKQNAB
S341	87-036-397-080		SW,TACT SKQNAB
S342	87-036-397-080		SW,TACT SKQNAB
S343	87-036-397-080		SW,TACT SKQNAB
S344	87-036-397-080		SW,TACT SKQNAB
S345	87-036-397-080		SW,TACT SKQNAB
S346	87-036-397-080		SW,TACT SKQNAB
S347	87-036-397-080		SW,TACT SKQNAB
S348	87-036-397-080		SW,TACT SKQNAB
VR600	83-NM1-627-010		VR,10KB RK11K1130
VR601	81-MX4-637-010		VR,10KA RK11K1130
X201	87-030-376-080		VIB,CER CSA5.76MG200

MVR C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C731	87-010-322-080		C-CAP,S 100P-50 CH
C732	87-010-322-080		C-CAP,S 100P-50 CH
C735	87-010-402-040		CAP,E 2.2-50 SME
C736	87-010-402-040		CAP,E 2.2-50 SME
C737	87-010-374-040		CAP,E 47-10
C738	87-010-374-040		CAP,E 47-10
C741	87-010-198-080		C-CAP,S 0.022-25 B
C745	87-016-073-040		CAP,E 1-50 FX
C746	87-016-073-040		CAP,E 1-50 FX
C747	87-010-401-040		CAP,E 1-50 SME
C748	87-010-401-040		CAP,E 1-50 SME
C750	87-010-381-080		CAP,E 330-16 SME
C751	87-010-401-040		CAP,E 1-50 SME
C752	87-010-401-040		CAP,E 1-50 SME
C757	87-010-404-040		CAP,E 4.7-50 SME
C773	87-010-546-040		CAP,E 0.33-50
C777	87-010-402-040		CAP,E 2.2-50 SME
C778	87-010-402-040		CAP,E 2.2-50 SME
C797	87-010-402-040		CAP,E 2.2-50 SME
MVR741	85-NF5-635-010		VOL,50KBX2 (M)

KEY C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED415	87-070-197-080		LED,SLP7118C-51-S-T1
LED416	87-070-197-080		LED,SLP7118C-51-S-T1
LED417	87-070-197-080		LED,SLP7118C-51-S-T1
S349	87-036-397-080		SW,TACT SKQNAB
S350	87-036-397-080		SW,TACT SKQNAB
S351	87-036-397-080		SW,TACT SKQNAB
S352	87-036-397-080		SW,TACT SKQNAB
S353	87-036-397-080		SW,TACT SKQNAB

AC C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠	87-033-213-089		CLAMP FUSE SMK
⚠ F102	87-035-369-010		FUSE,5A 250V TE
⚠ F103	87-035-369-010		FUSE,5A 250V TE

PT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
⚠	87-033-213-089		CLAMP FUSE SMK
⚠	82-304-743-019		TERMINAL 1P
⚠ F101	87-035-365-010		FUSE,2A 250V TE
⚠ PT101	85-NF5-625-010		PT,5NF-5 EZK

DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SFR1	87-024-581-089		SFR,3.3K DIA 6H
SOL1	82-ZM1-626-010		SOL ASSY,27K
SOL2	82-ZM1-626-010		SOL ASSY,27K
SW1	87-036-110-019		SW,PUSH SPPB 62
SW2	87-036-110-019		SW,PUSH SPPB 62
SW3	87-036-110-019		SW,PUSH SPPB 62
SW4	87-036-110-019		SW,PUSH SPPB 62
SW5	87-036-110-019		SW,PUSH SPPB 62
SW6	87-036-378-019		SW,PUSH 1-1-1 SH2
SW8	87-036-378-019		SW,PUSH 1-1-1 SH2
SW9	87-036-378-019		SW,PUSH 1-1-1 SH2

HEAD-1 C.B

HEAD-2 C.B

TRANSISTOR ILLUSTRATION

E C B

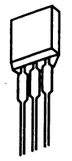
2SA1296
2SC2240
2SC3266
2SD655
KTC3198

E C B

2SA952

E C B

2SA933
DTA114YS

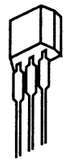


D G S

2SK365

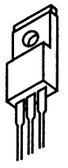
E C B

2SA1318
2SC3331



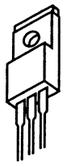
E C B

2SA935



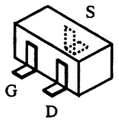
B C E

2SB1370

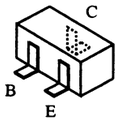


G D S

2SJ176
2SK1094



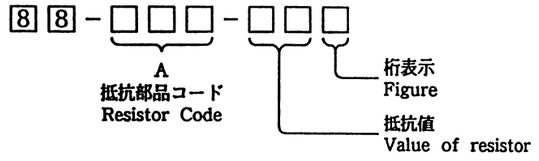
2SK543



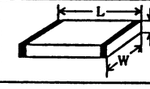
2SA1162	DTA143EK
2SC2712	DTA144EK
2SC2714	DTA144WK
2SC3326	DTC114EK
2SC3722	DTC144EK

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

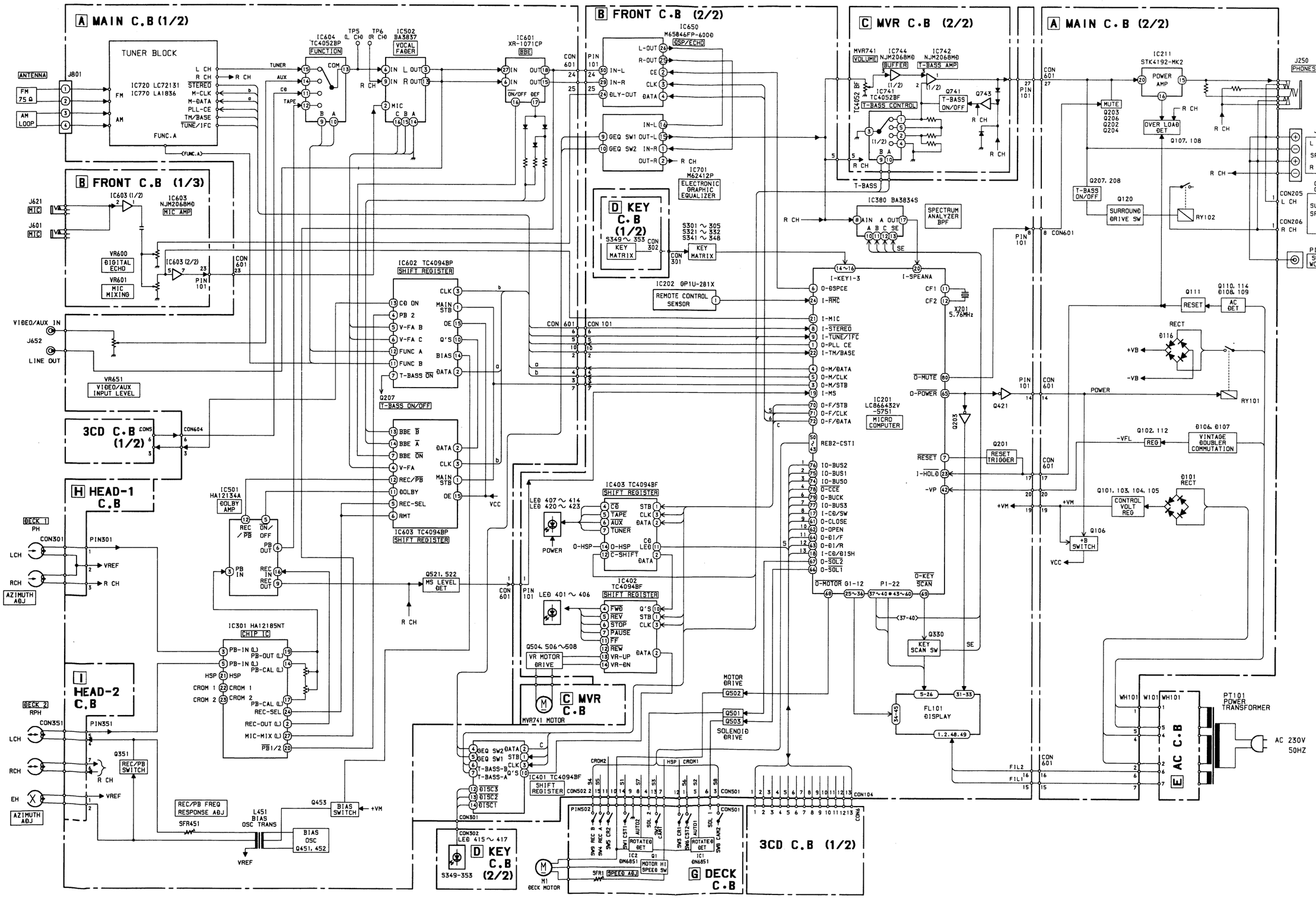
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



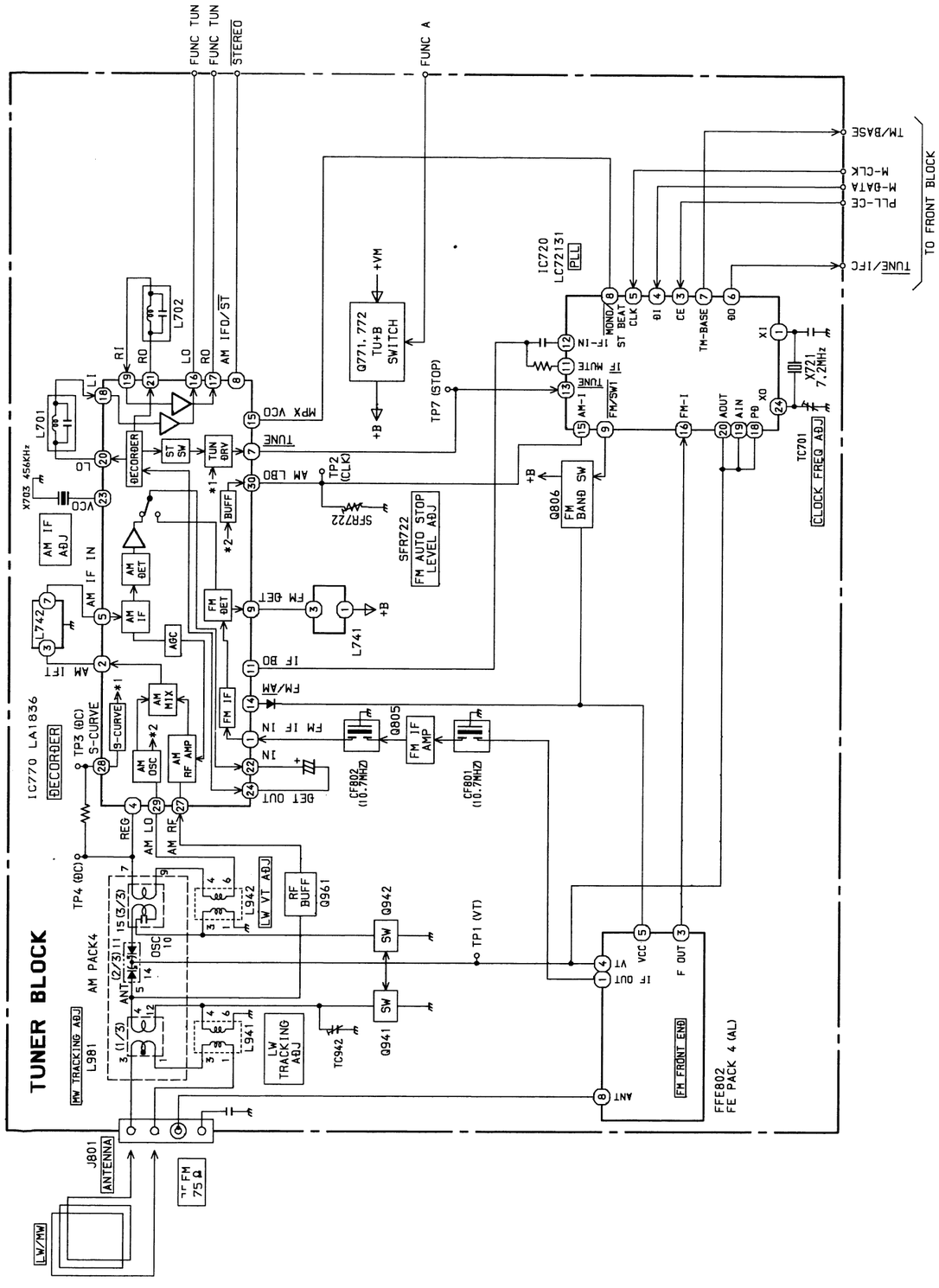
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

BLOCK DIAGRAM – 1 (MAIN / FRONT)

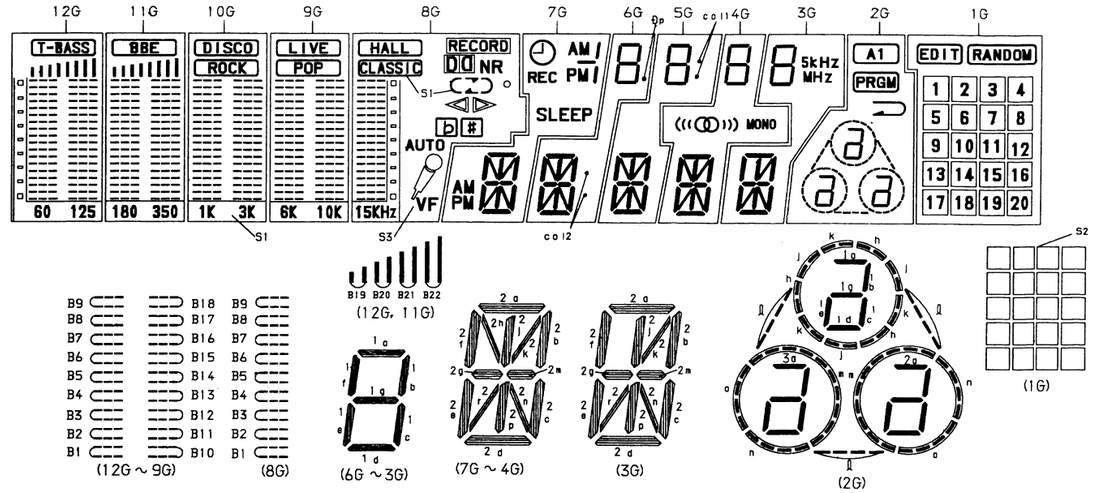


BLOCK DIAGRAM – 2 (TUNER)



FL (BJ350GK) GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	B10	B10	B10	B10	S3	2d	2d	2d	2d	2d	n	**20**
P2	B1	B1	B1	B1	B1	2j ,2p	2j ,2p	2j ,2p	2j ,2p	2j ,2p	o	**19**
P3	B11	B11	B11	B11	**AUTO**	2n	2n	2n	2n	2n	3e	**18**
P4	B2	B2	B2	B2	B2	2r	2r	2r	2r	2r	3c	**17**
P5	B12	B12	B12	B12	(b)	2c	2c	2c	2c	2c	3a,3d,3g	**16**
P6	B3	B3	B3	B3	B3	2e	2e	2e	2e	2e	3b	**15**
P7	B13	B13	B13	B13	(#)	2m	2m	2m	2m	2m	2e	**14**
P8	B4	B4	B4	B4	B4	2g	2g	2g	2g	2g	2c	**13**
P9	B5	B5	B5	B5	B5	2f	2f	2f	2f	2f	2a,2d,2g	**12**
P10	B15	B15	B15	B15	▷	2b	2b	2b	2b	2b	l	**11**
P11	B6	B6	B6	B6	B6	2k	2k	2k	2k	2k	j	**10**
P12	B16	B16	B16	B16	◁	2h	2h	2h	2h	**MHz**	h	**9**
P13	B7	B7	B7	B7	B7	2a	2a	2a	2a	2a	k	**8**
P14	B14	B14	B14	B14	)	**PM** (DOWN)	col 2	col1 (UP)	**MONO**	**KHz**	2b	**7**
P15	B17	B17	B17	B17	(	**AM** (DOWN)	Dp	col1 (DOWN)	(((●)))	**5**	1e	**6**
P16	B8	B8	B8	B8	B8	**SLEEP**	1d	1d	1d	1d	1a,1d,1g	**5**
P17	B18	B18	B18	B18	○	**REC**	1e	1e	1e	1e	1c	**4**
P18	B9	B9	B9	B9	B9	**PM** (UP)	1c	1c	1c	1c	1b	**3**
P19	B19 (T-BASS)	B19 (BBE)	(ROCK)	(POP)	**DD NR**	**AM** (UP)	1g	1g	1g	1g	m	**2**
P20	B20	B20	(DISCO)	(LIVE)	**RECORD**	—	1f	1f	1f	1f	**A1**	**1**
P21	B21	B21	—	—	(CLASSIC)	/	1b	1b	1b	1b	▱	**EDIT**
P22	B22	B22	—	—	(HALL)	◷	1a	1a	1a	1a	**PRGM**	**RANDOM**
P23	S1 **T-BASS**	S1	S1 **ROCK**	S1 **POP**	S1	—	—	—	—	—	—	S2
P24	—	**BBE**	—	—	—	—	—	—	—	—	—	—
P25	—	—	**DISCO**	**LIVE**	**HALL**	—	—	—	—	—	—	—
P26	—	—	—	—	b #	—	—	—	—	—	—	—

A MAIN C.B

FROM I HEAD-2 C.B
CON351
1 3 5 7 8
TO PIN351

FROM H HEAD-1 C.B
CON301
1 3
TO PIN301

TO B FRONT C.B
PIN101

J801
ANTENNA

LW/MW LOOP

1F FM 75Ω

VR651
VIDEO/AUX INPUT LEVEL

FT104
FROM 3CD C.B CONS

TO CON604

J652
VIDEO /AUX

J652
LINE OUT

SURROUND SPEAKERS
SPEAKER IMP:16Ω+16Ω

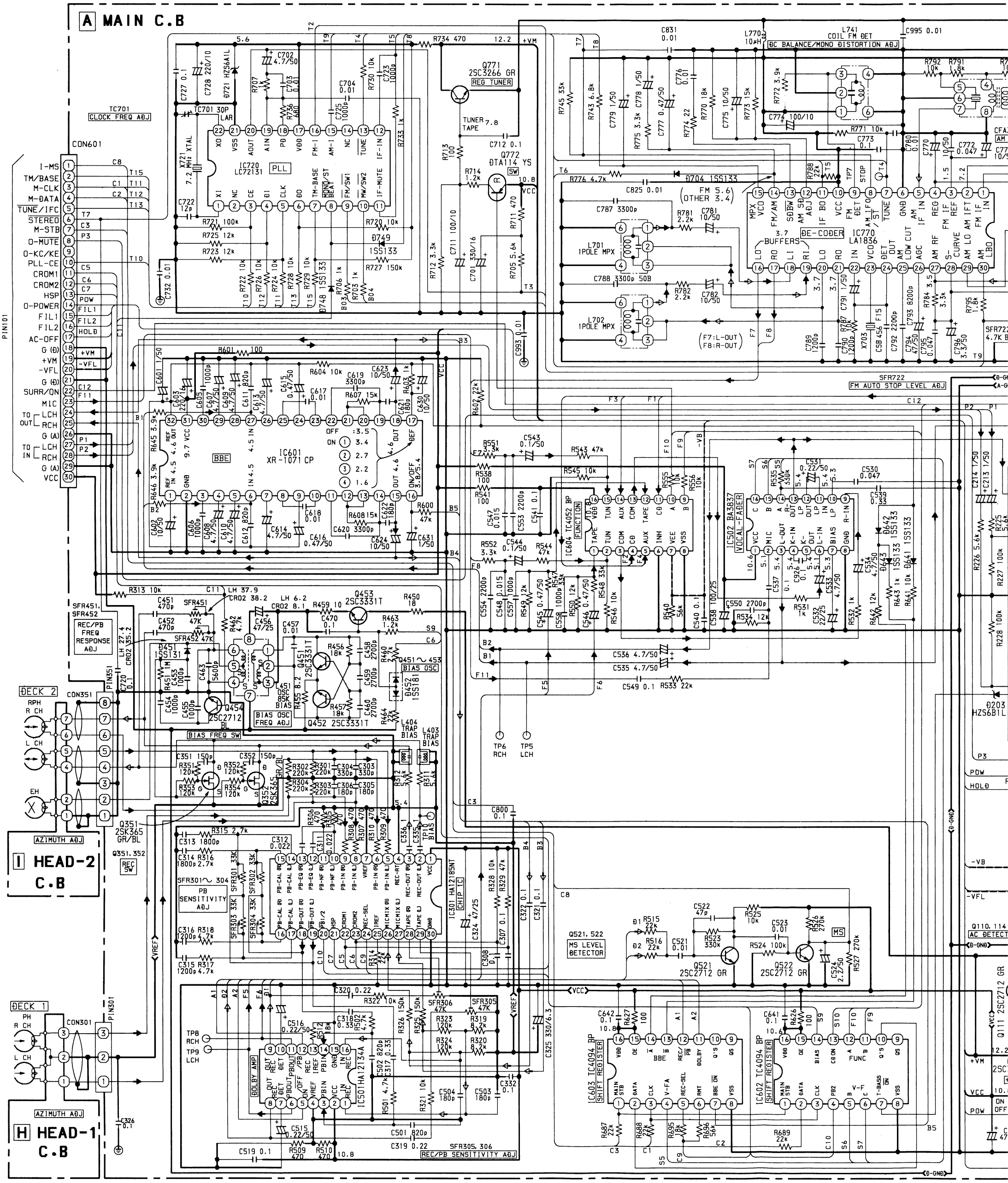
W101
BLK
BLK
WHT
TO AC C.B WH101

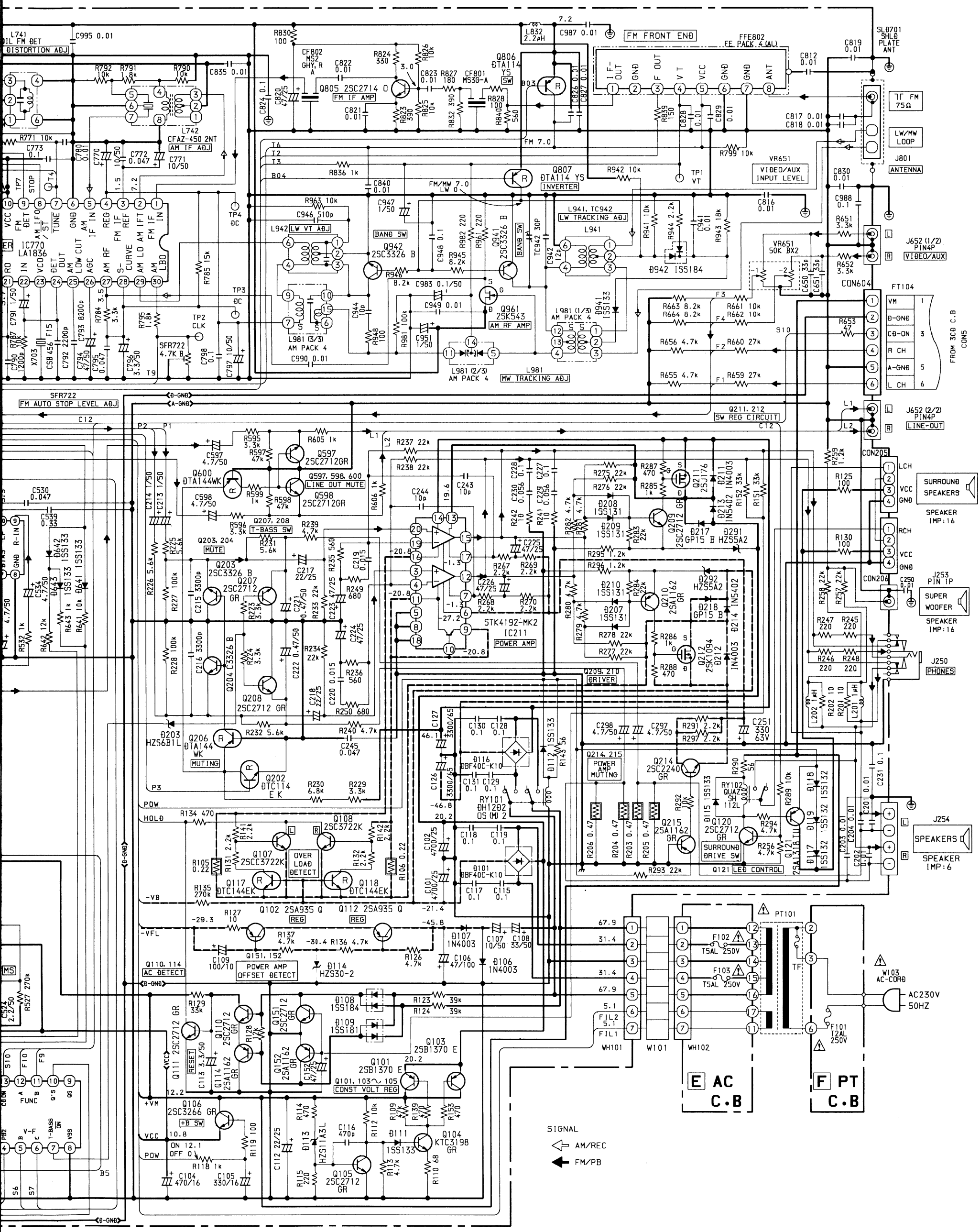
J253
SUPER WOOFER

J254
SPEAKERS
SPEAKER IMP:6Ω

J250
PHONES

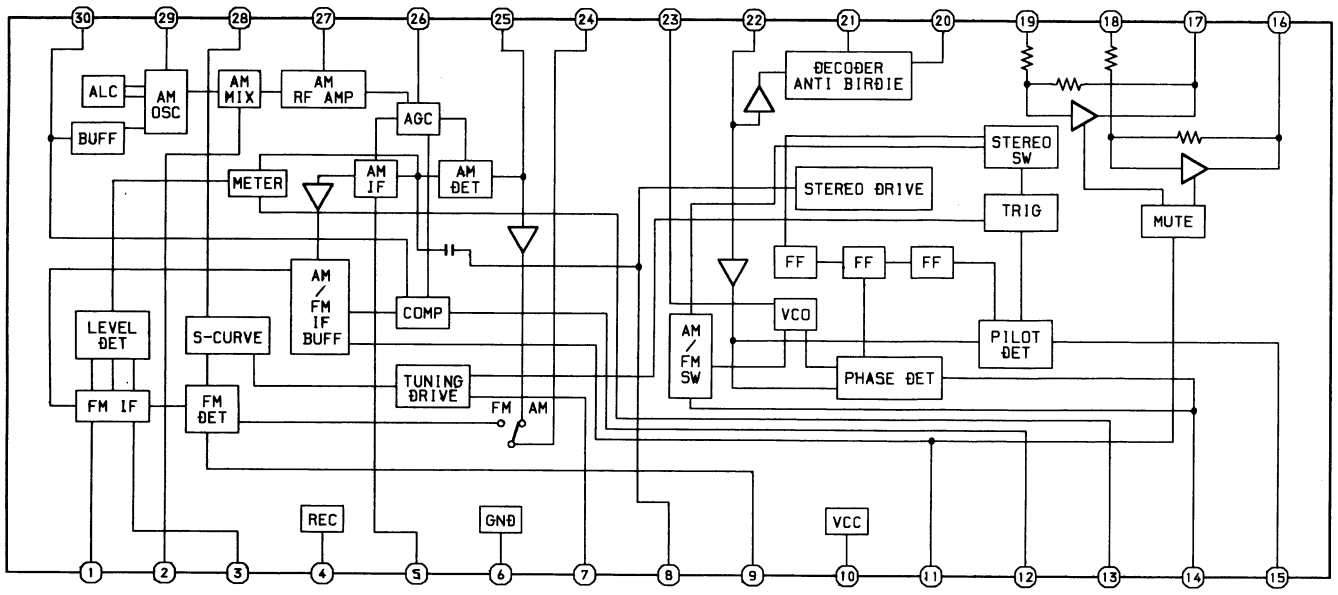
SCHEMATIC DIAGRAM – 1 (MAIN)



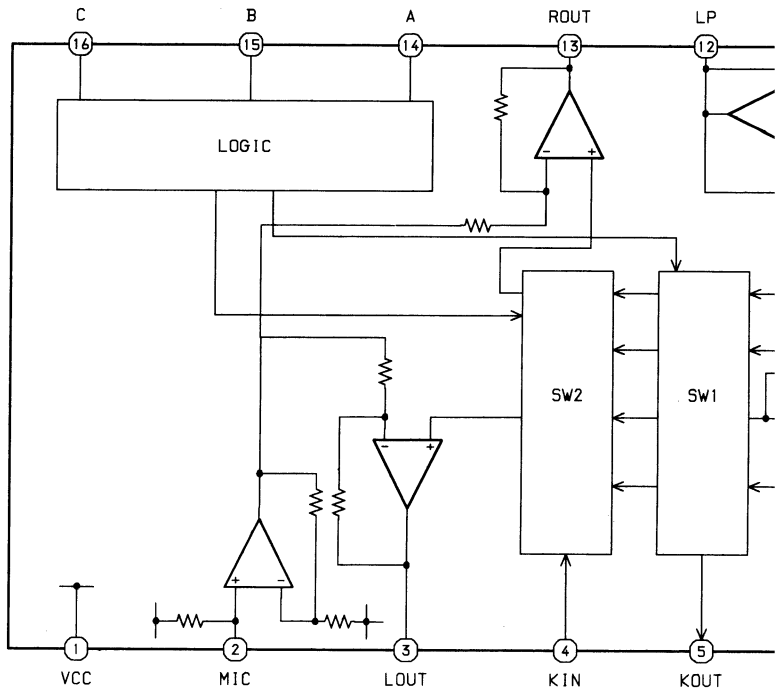

FM FRONT END
FFE802
FE PACK 4 (AL)
IC770
LA1836
IC211
STK4192-MK2
POWER AMP
Q807
ΘTA114 YS
INVERTER
Q806
ΘTA114
YS
SW
Q805 2SC2714 O
FM IF AMP
Q942
2SC3326 B
Q961
2SK543
AM RF AMP
Q597
2SC2712GR
Q598
2SC2712GR
Q597, 598, 600
LINE OUT MUTE
Q600
ΘTA144WK
Q203, 204
MUTE
Q203
2SC3326 B
Q204 C3326 B
Q207
2SC2712
GR
Q208
2SC2712 GR
Q206
ΘTA144
WK
MUTING
Q202
ΘTC114
E K
Q207, 208
T-BASS SW
Q108
2SC3722K
Q107
2SCC3722K
Q117
ΘTC144EK
Q118
ΘTC144EK
OVER
LOAΘ
ΘETECT
Q102 2SA935 Q
Q112 2SA935 Q
REG
REG
Q151, 152
POWER AMP
OFFSET ΘETECT
Q110, 114
AC ΘETECT
Q111 2SC2712 GR
Q114
2SA1162
GR
Q152
2SA1162
GR
Q151
2SC2712
GR
Q110
2SC2712
GR
RESET
Q106
2SC3266 GR
+B SW
Q101
2SB1370 E
Q103
2SB1370 E
Q101, 103 ~ 105
CONST VOLT REG
Q105
2SC2712
GR
Q104
KTC3198
GR
Q209, 210
ΘRIVER
Q211, 212
SW REG CIRCUIT
Q214, 215
POWER
AMP
MUTING
Q214
2SC2240
GR
Q215
2SA1162
GR
Q120
2SC2712
GR
SURROUNΘ
ΘRIVE SW
Q121
2SA1318
TU
Q121 LEΘ CONTROL
Q211
2SJ176
Q210
2SA1162
GR
Q212
2SK1094
ΘΘ12
ΘΘ941
1SS133
ΘΘ942 1SS184
ΘΘ203
HZS6B1L
ΘΘ208
1SS131
ΘΘ209
1SS131
ΘΘ207
1SS131
ΘΘ210
1SS131
ΘΘ217
GP15 B HZS5A2
ΘΘ291
ΘΘ292
HZS5A2
ΘΘ218
GP15 B
ΘΘ213
1N5402 1N4003
ΘΘ211
1N4003
ΘΘ214 1N5402
ΘΘ116
ΘBF40C-K10
ΘΘ101
ΘBF40C-K10
ΘΘ117
1SS132 1SS132
ΘΘ118
ΘΘ119
ΘΘ107
1N4003
ΘΘ106
1N4003
ΘΘ108
1SS184
ΘΘ109
1SS181
ΘΘ111
1SS133
ΘΘ114
HZS30-2
RY101
ΘH12ΘΘ2
OS (M) 2
RY102
QUAZ
SH
112L
L741
ΘIL FM ΘET
ΘISTORTION AΘJ
L742
CFAZ-450 2NT
AM IF AΘJ
L832
2.2μH
L941, TC942
LW TRACKING AΘJ
L941
L942
LW VT AΘJ
L981 (1/3)
AM PACK 4
L981 (2/3)
AM PACK 4
L981 (3/3)
AM PACK 4
L981
MW TRACKING AΘJ
CF802
MS2
GHY, R
A
CF801
MS3G-A
SFR722
4.7K B
SFR722
FM AUTO STOP LEVEL AΘJ
VR651
VIΘEO/AUX
INPUT LEVEL
VR651
50K BX2
J801
ANTENNA
SLΘ701
SHLΘ
PLATE
ANT
TP1
VT
TP2
CLK
TP3
ΘC
TP4
ΘC
J652 (1/2)
PIN4P
VIΘEO/AUX
CON604
FT104
FROM 3CΘ C.B
CON5
J652 (2/2)
PIN4P
LINE-OUT
CON205
SURROUNΘ
SPEAKERS
SPEAKER
IMP:16
CON206
J253
PIN 1P
SUPER
WOOFER
SPEAKER
IMP:16
J250
PHONES
J254
SPEAKERS
SPEAKER
IMP:6
PT101
F102
T5AL 250V
F103
T5AL 250V
F101
T2AL
250V
W103
AC-CORΘ
AC230V
50HZ
WH101
W101
WH102
E AC
C.B
F PT
C.B
SIGNAL
AM/REC
FM/PB
FM 7.0
FM/MW 7.0
LW 0
7.2
3.0
1.5
10/50
19.6
-20.8
-1.3
-27.2
-46.8
20.2
-21.4
-29.3
-45.8
46.1
12.2
10.8
ON 12.1
OFF 0
-VB
-VFL
+VM
VCC
POW
HOLΘ
ΘSCL
ΘSΘA
A-GNΘ
ΘGNΘ
TF
TF FM
75Ω
LW/MW
LOOP

IC BLOCK DIAGRAM – 1

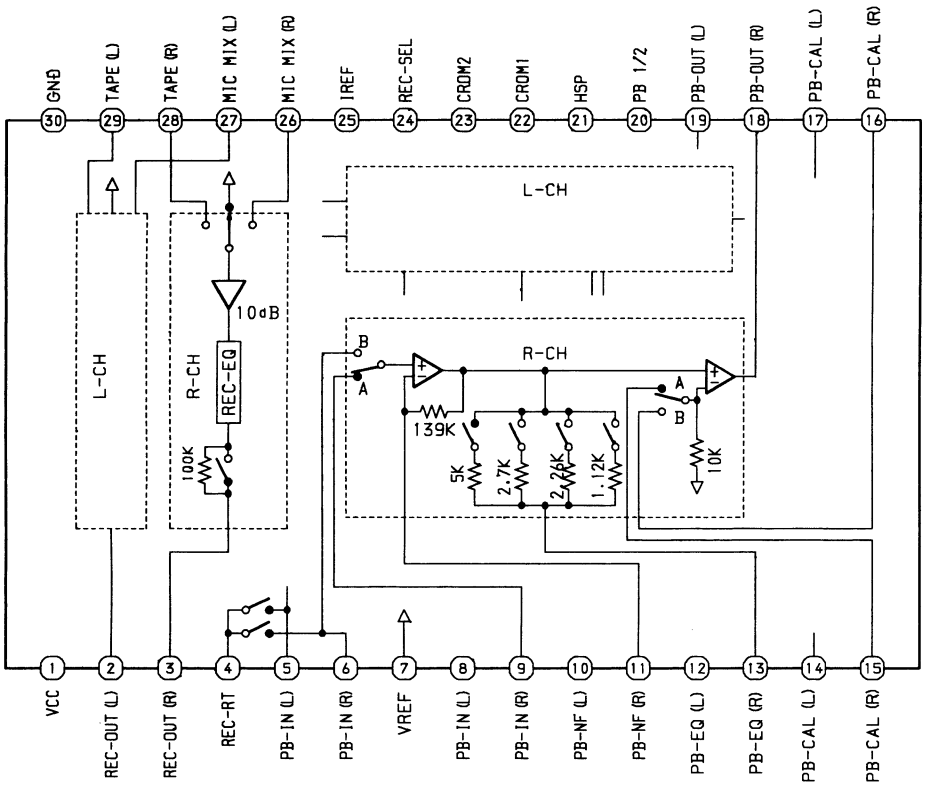
IC, LA1836



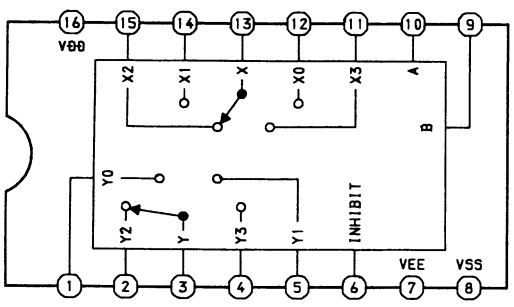
IC, BA3837



IC, HA12185NT



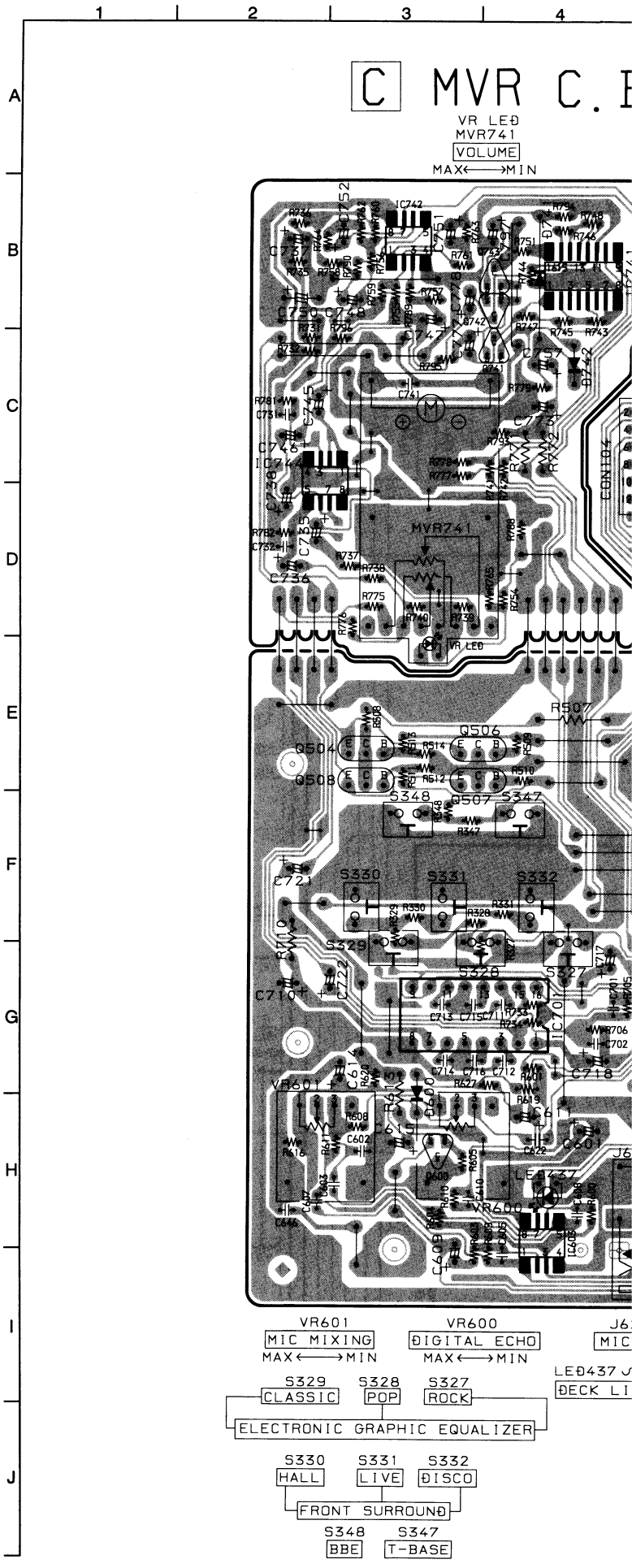
IC, TC4052

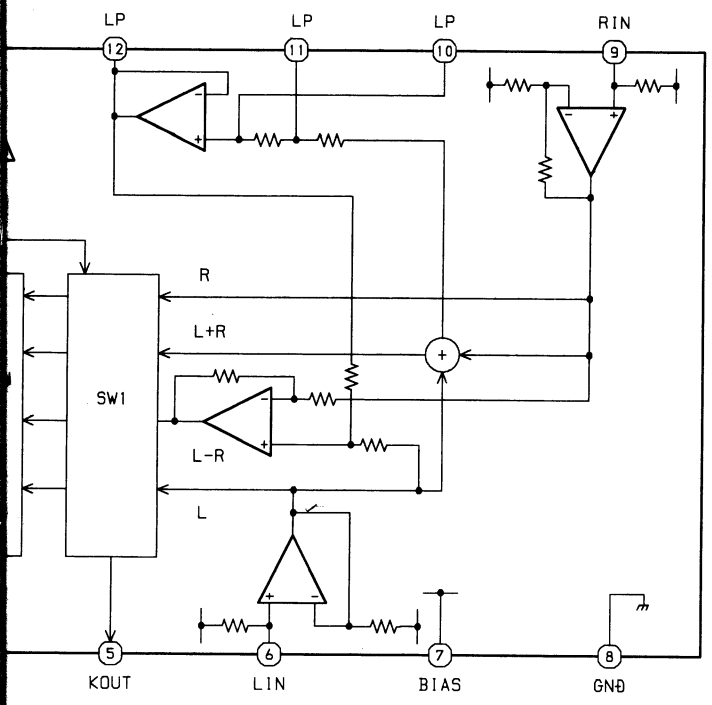


CONTROL INPUTS			ON SWITCH	
INHIBIT	B	A		
L	L	L	Y0	X0
L	L	H	Y1	X1
L	H	L	Y2	X2
L	H	H	Y3	X3
H	X	X	–	–

L:LOW LEVEL
H:HIGH LEVEL
H:IRRELEVANT

WIRING – 2 (FRONT)





4 5 6 7 8 9 10 11 12 13 14

R C.B

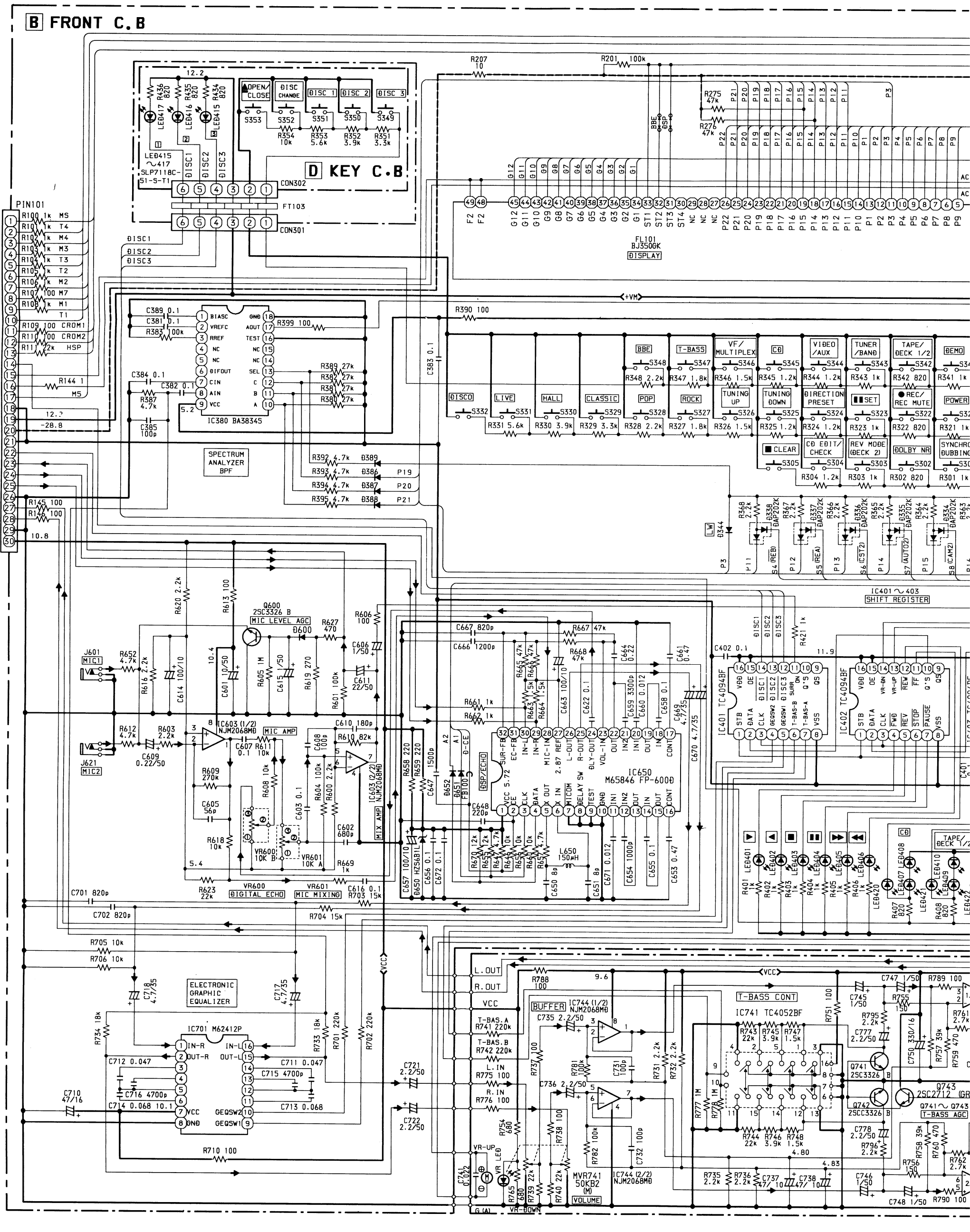
LED
741
UME
→MIN

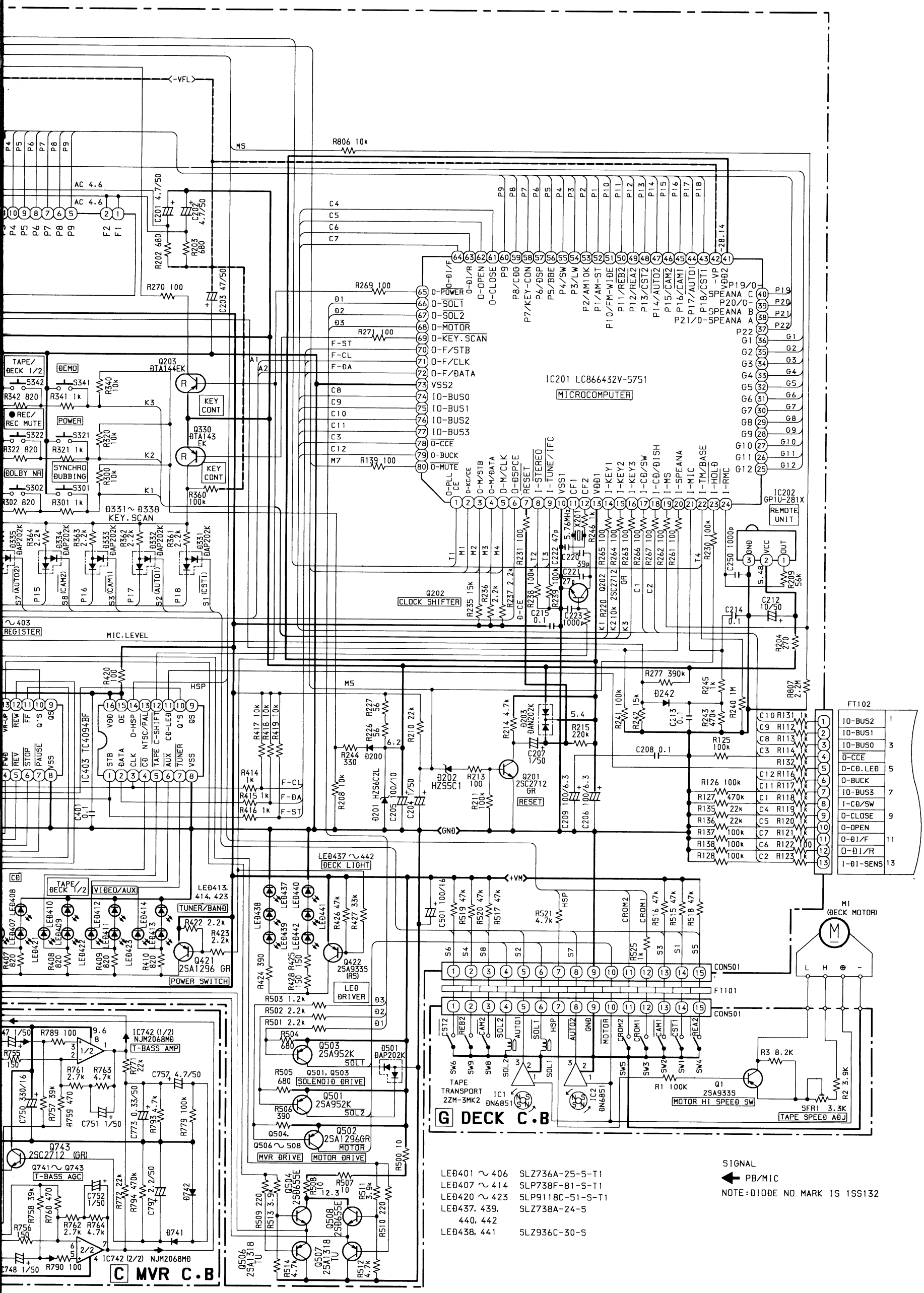
LED417 S351 1
LED416 S350 2
LED415 S349 3
DISC DIRECT PLAY
S351 S350 S349
S352 DISC CHANGE
S353 ▲OPEN/CLOSE
CON30

Đ KEY C.B

FT102
TO 3CĐ C.B CON6
TO G ĐECK C.B CON501
FT101
TO CON401
FL101 ĐISPLAY
B FRONT C.B
FT103
S321 POWER
CON30
IC380
S321 REĐ
FROM A MAIN C.B CON601
S347
S332
S327
S345
S344
S343
S324
S305
S323
S322
S301
S326
S325
S346
S341
S303
S302
IC201
IC402
IC403
IC450
IC401
X201
Q201
Q202
Q203
Q380
Q422
Q501
Q503
Q504
Q505
Q506
Q507
Q508
Q509
Q510
Q511
Q512
Q513
Q514
Q515
Q516
Q517
Q518
Q519
Q520
Q521
Q522
Q523
Q524
Q525
Q526
Q527
Q528
Q529
Q530
Q531
Q532
Q533
Q534
Q535
Q536
Q537
Q538
Q539
Q540
Q541
Q542

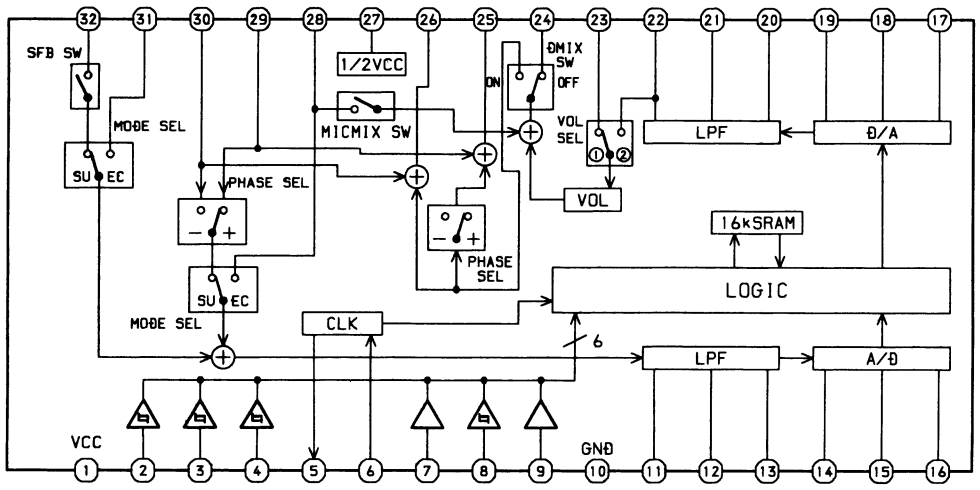
SCHEMATIC DIAGRAM – 2 (FRONT)



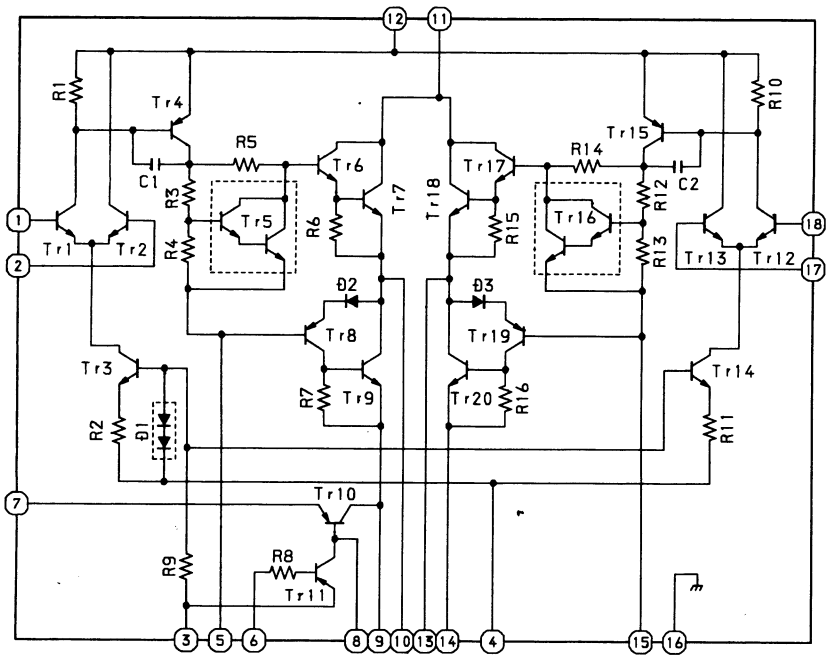

IC201 LC866432V-5751
MICROCOMPUTER
IC202 GPIU-281X
REMOTE UNIT
Q202 CLOCK SHIFTER
IC403 TC4094BF
REGISTER
MIC.LEVEL
KEY CONT
POWER
SYNCHRO DUBBING
Ø331 ~ Ø338 KEY.SCAN
LEØ437 ~ 442 ØECK LIGHT
LEØ413, 414, 423 TUNER/BANØ
POWER SWITCH
LEØ DRIVER
MVR ØRIVE
MOTOR ØRIVE
SOLENOIØ ØRIVE
IC742 (1/2) NJM2068MØ T-BASS AMP
IC742 (2/2) NJM2068MØ
T-BASS AGC
C MVR C.B
TAPE TRANSPORT 2ZM-3MK2
IC1 ØN6851
IC2 ØN6851
MOTOR HI SPEEØ SW
TAPE SPEEØ AØJ
G DECK C.B
FT102
TO 3CØ C.B CON6
FT101
CON501
M1 (ØECK MOTOR)
SIGNAL
PB/MIC
NOTE:ØIOØE NO MARK IS 1SS132
LEØ401 ~ 406 SLZ736A-25-S-T1
LEØ407 ~ 414 SLP738F-81-S-T1
LEØ420 ~ 423 SLP9118C-51-S-T1
LEØ437, 439, 440, 442 SLZ738A-24-S
LEØ438, 441 SLZ936C-30-S

IC BLOCK DIAGRAM – 2

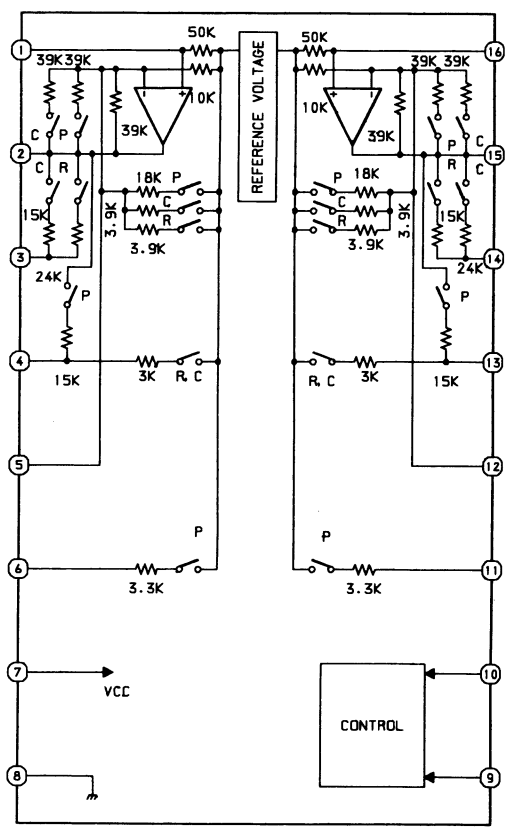
IC, M65846FP–600D



IC, STK4192–MK2

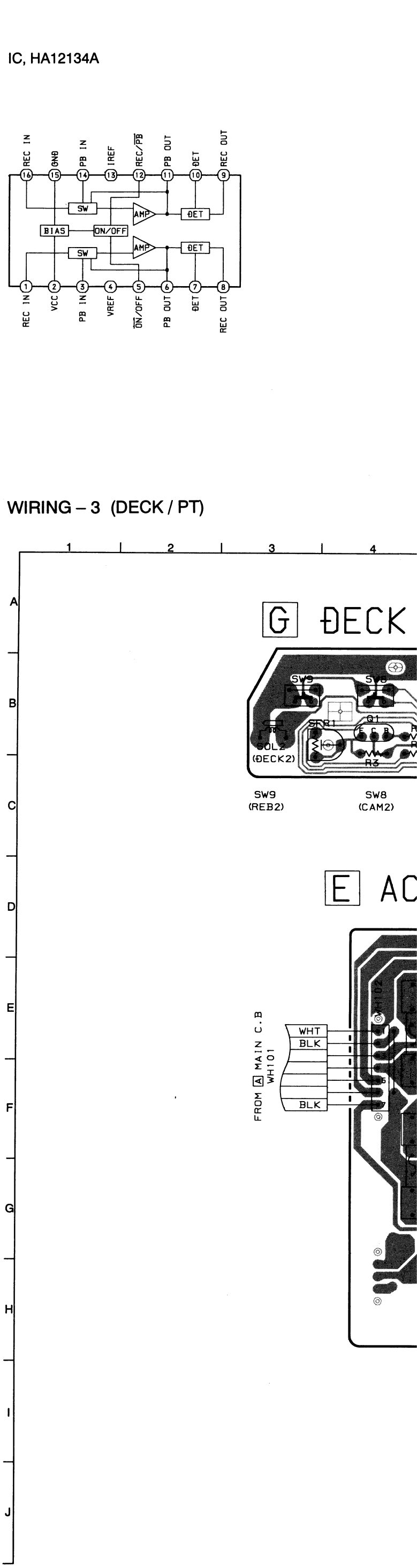


IC, M62412P

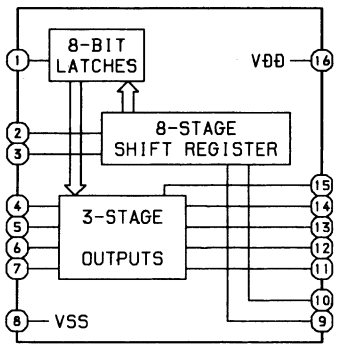


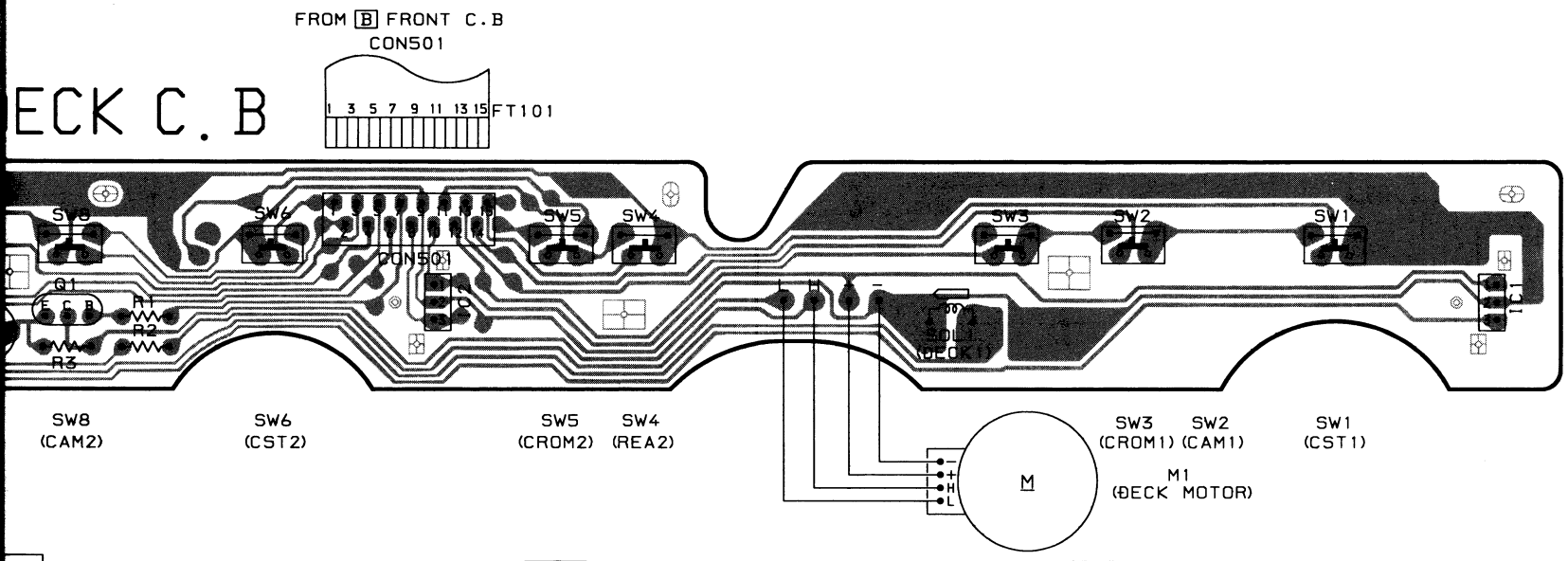
IC, HA12134A

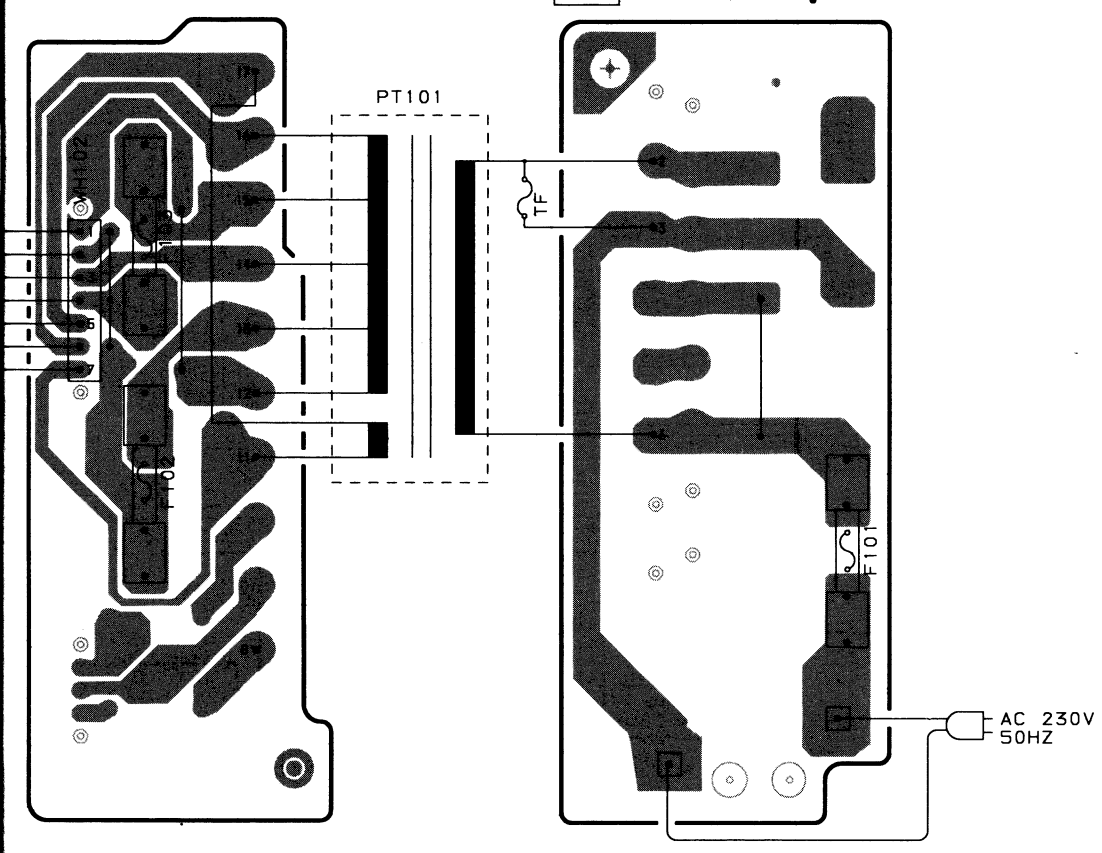
WIRING – 3 (DECK / PT)

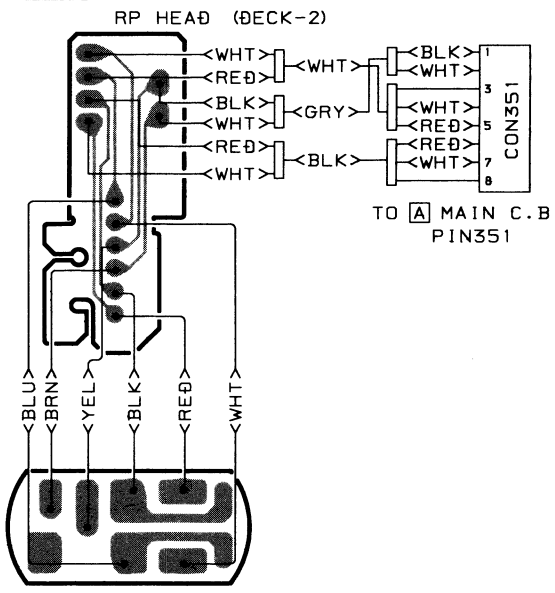


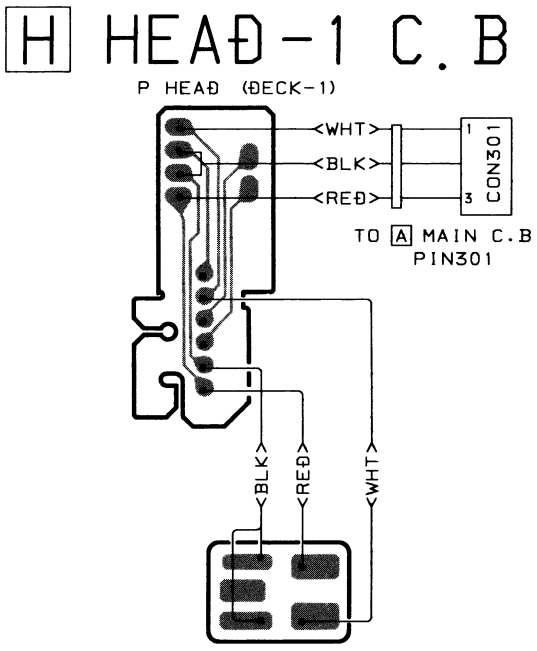
IC, TC4094BP


8-BIT
LATCHES
VDD
16
1
8-STAGE
SHIFT REGISTER
2
3
15
4
14
5
13
6
12
7
11
10
3-STAGE
OUTPUTS
9
8
VSS


ECK C.B
FROM B FRONT C.B
CON501
1 3 5 7 9 11 13 15
FT101
SW8
SW6
SW5
SW4
SW3
SW2
SW1
CON501
Q1
E C B
R1
R2
R3
SOL1
(DECK)
SW8
(CAM2)
SW6
(CST2)
SW5
(CROM2)
SW4
(REA2)
SW3
(CROM1)
SW2
(CAM1)
SW1
(CST1)
M
M1
(DECK MOTOR)


E AC C.B
PT101
TF
F101
AC 230V
50HZ


I HEAD-2 C.B
RP HEAD (DECK-2)
WHT
RED
BLK
WHT
RED
WHT
WHT
RED
BLK
GRY
BLK
BLK
WHT
WHT
RED
RED
WHT
CON351
TO A MAIN C.B
PIN351
BLU
BRN
YEL
BLK
RED
WHT


H HEAD-1 C.B
P HEAD (DECK-1)
WHT
BLK
RED
CON301
TO A MAIN C.B
PIN301
BLK
RED
WHT

IC DESCRIPTION

IC, LC72131

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XI</td><td>–</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XO</td><td>–</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU (LC866432V–5751) when relevant key is operated. Active "H".</td></tr>
<tr><td>5</td><td>CLK</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU (LC866432V–5751).</td></tr>
<tr><td>7</td><td>TM-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$/ST BEAT</td><td>O</td><td>Outputs "H" when MONO/ST BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM/SW1}}$</td><td>O</td><td>Output "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW/SW2}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="4">4 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>LW</th><th>SW1</th><th>SW2</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>H</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>$\overline{\text{IF-MUTE}}$</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>AM-I</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM-I</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">Nch MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

IC, BA3834S

Pin No.	Pin Name	I/O	Description
1	BIASC	–	Decoupling capacitor for linear VREF connecting terminal.
2	VREFC	–	Decoupling capacitor for logic VREF connecting terminal.
3	RREF	–	Reference resistor for setting band pass filter for connecting terminal.
4, 5	NC	–	Not used.
6	DIFOUT	O	Differential amplifier output terminal.
7	CIN	I	Differential amplifier input terminal 2.
8	AIN	I	Differencial amplifier input terminal 1.
9	VCC	–	Nominally 5V.
10	A	O	Output selection control terminals (see table – 1).
11	B		
12	C		
13	SEL		
14, 15	NC	–	Not used.
16	TEST	–	Connected to ground.
17	A-OUT	O	Multiplexer output terminal.
18	GND	–	Ground.

Table – 1. Filter Select Table

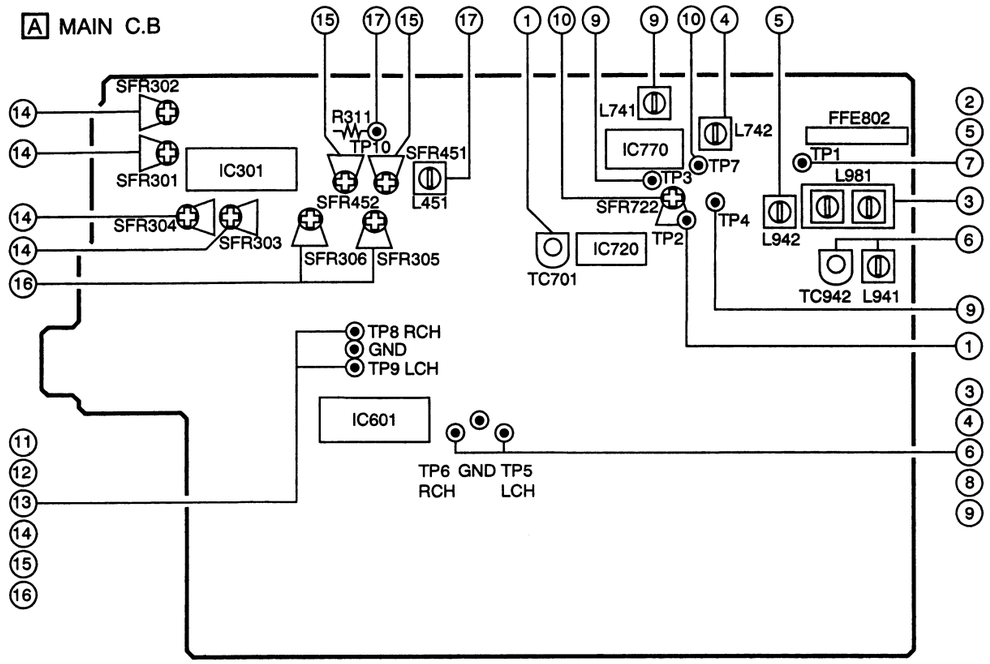
SEL	A	B	C	AOUT
0	X	X	X	GND
1	0	0	0	GND
1	0	0	1	68Hz
1	0	1	0	170Hz
1	0	1	1	420Hz
1	1	0	0	1kHz
1	1	0	1	2.4kHz
1	1	1	0	5.9kHz
1	1	1	1	14.4kHz

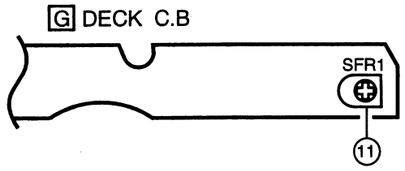
IC, LC866432V–5751

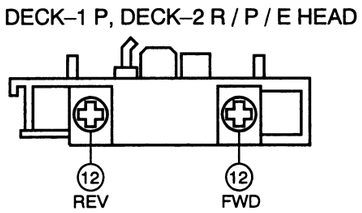
Pin No.	Pin Name	I/O	Description
1	O-PLL CE	O	PLL IC chip enable.
2	O-KC/CE	O	Key control IC M65840FP data latched strobe output.
3	O-M/STB	O	Main shift register (IC602, 603) data latch strobe output.
4	O-M/DATA	O	Main shift register (IC602, 603), PLL/key control/DSP related data output.
5	O-M/CLK	O	Main shift register (IC 602, 603), PLL/key control/DSP related clock output.
6	O-DSPCE	O	DSP data latch strobe output.
7	$\overline{\text{RESET}}$	I	Reset input.
8	I-$\overline{\text{STEREO}}$	I	Tuner stereo detected input.
9	I-$\overline{\text{TUNE/IFC}}$	I	Tuner $\overline{\text{SD}}$ detected input. IF count serial data input.
10	VSS1	–	GND.
11, 12	CF1, 2	–	5.76MHz oscillator circuit.
13	VDD1	–	Power supply input.
14 ~ 16	I-KEY1 ~ 3	I	Key input. (A/D)
17	I-CD/SW	I	CD mechanical switch A/D converter input.
18	I-CD/DISH	I	CD turntable photo sensor A/D converter input.
19	I-MS	I	Deck music sensor signal input.
20	I-SPEANA	I	A/D input for spectrum analyzer display.
21	I-MC	I	Microphone input for auto VF display.
22	I-TM BASE	I	Reference clock input for timer watch.
23	I-$\overline{\text{HOLD}}$	I	Power failure detected input. "L" to stop clock and maintain memory.
24	I-$\overline{\text{RMC}}$	I	System remote control signal input.
25 ~ 36	G12 ~ G1	O	FL grid output G12 ~ G1.
37	P22	O	FL segment output P22.
38	P21/O-SPEANA A	O	FL segment output P21, spectrum analyzer band switch output (A).
39	P20/O-SPEANA B	O	FL segment output P20, spectrum analyzer band switch output (B).
40	P19/O-SPEANA C	O	FL segment output P19, spectrum analyzer band switch output (C).
41	VDD2	–	Power supply input.
42	–VP	–	Power supply input (–34.5V) for FL display.
43	P18/$\overline{\text{CST1}}$	O / I	FL segment output P18, DECK1 cassette detect switch data input.
44	P17/$\overline{\text{AUTO1}}$	O / I	FL segment output P17, DECK1 auto stop signal input.
45	P16/$\overline{\text{CAM1}}$	O / I	FL segment output P16, DECK1 cam switch data input.
46	P15/$\overline{\text{CAM2}}$	O / I	FL segment output P15, DECK2 cam switch data input.
47	P14/$\overline{\text{AUTO2}}$	O / I	FL segment output P14, DECK2 auto stop signal input.
48	P13/$\overline{\text{CST2}}$	O / I	FL segment output P13, DECK2 cassette detect switch data input.
49	P12/REA2	O / I	FL segment output P12, DECK2 side-A record OK switch data input.
50	P11/REB2	O / I	FL segment output P11, DECK2 side-B record OK switch data input.
51	P10/FM-WIDE	O / I	FL segment output P10, FM wide mode data input to diode.
52	P1/AM-ST	O / I	FL segment output P1, AM stereo mode data input to diode.
53	P2/AM10K	O / I	FL segment output P2, AM 10kHz step data input to diode.
54	P3/LW	O / I	FL segment output P3, LW mode data input to diode.

Pin No.	Pin Name	I/O	Description
55	P4/SW	O / I	FL segment output P4, SW mode data input to diode.
56	P5/BBE	O / I	FL segment output P5, BBE mode data input to diode.
57	P6/DSP	O / I	FL segment output P6, DSP data input to diode.
58	P7/KEY-CON	O / I	FL segment output P7, key control data input to diode.
59	P8/CDG	O / I	FL segment output P8, CDG data input to diode.
60	P9	O	FL segment output P9.
61	O-CLOSE	O	CD tray close data output.
62	O-OPEN	O	CD tray open data output.
63	O-DI/R	O	CD turntable reverse rotation output.
64	O-DI/F	O	CD turntable forward rotation output.
65	O-$\overline{\text{POWER}}$	O	System power supply $\overline{\text{ON}}$/OFF output.
66	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid output.
67	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid output.
68	O-$\overline{\text{MOTOR}}$	O	DECK motor output.
69	O-$\overline{\text{KEY. SCAN}}$	O	Switch scan timing output.
70	O-F/STB	O	Front shift register (IC401 ~ 403), data latch strobe output.
71	O-F/CLK	O	Front shift register (IC401 ~ 403), data transfer clock output.
72	O-F/DATA	O	Front shift register (IC401 ~ 403), data output.
73	VSS2	–	GND.
74 ~ 77	IO-BUS0 ~ 3	I / O	CD IC control data bus input/output.
78	O-$\overline{\text{CCE}}$	O	CD IC control chip enable output.
79	O-BUCK	O	CD IC control data bus clock output.
80	O-$\overline{\text{MUTE}}$	O	System mute output.

ADJUSTMENT – 1 <TUNER / DECK>







< TUNER SECTION >

1. Clock Frequency Adjustment
   Settings : • Test point : TP2 (CLK IC770 pin30)
   • Adjustment location : TC701
   Method : Set to MW 1602kHz and adjust TC701 so that the test point becomes 2052kHz ± 0.01kHz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is 6.8V ± 1.0V .

3. MW Tracking Adjustment
   Settings : • Test point : TP5, TP6
   • Ajustment location : L981
   Method : Set to MW 999kHz and adjust L981 so that the test point becomes maximum.

4. AM IF Adjustment
   Settings : • Test point : TP5, TP6
   L742 ..... 450kHz

5. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Ajustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V ± 0.05V.

6. LW Tracking Adjustment
   Settings : • Test point : TP5, TP6
   • Ajustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

7. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.5V (87.5MHz) and less than 8.2V(108.0MHz).

8. FM Tracking Check
   Settings : • Test point : TP5, TP6
   Method : • Set to FM 98.0MHz and check that the test point is 6dB ± 6dB.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   TP5, TP6 (Distortion)
   • Ajustment location : L741
   • Input level : 54dB
   Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V.
   Next, check that the distortion is less than 1.3%.

10. Auto Stop Level Adjustment
    Settings : • Test point : TP7
    • Adjustment location : SFR722
    • Input level : 16dB
    Method : Set to FM 98.0 MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

< DECK SECTION >

11. Tape Speed Adjustment
    Settings : • Test tape : TTA–100
    • Test point : TP8, TP9
    • Adjustment location : SFR1
    Method : Play back the test tape by DECK 2 and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz.

12. Head Azimuth Adjustment
    Settings : • Test tape : TTA–300
    • Test point : TP8, TP9
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

13. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300
    • Test point : TP8, TP9
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal is with respect to that of the 315Hz signal is ± 2dB.

14. PB Sensitivity Adjustment
    Settings : • Test tape : TTA–200
    • Test point : TP8, TP9
    • Adjustment location :
    SFR301 (DECK 1, Lch)
    SFR302 (DECK 1, Rch)
    SFR303 (DECK 2, Lch)
    SFR304 (DECK 2, Rch)
    Method : Play back the test tape and adjust SFRs so that the output level of the test point becomes 300mV.

15. REC/PB Frequency Response Adjustment
    Settings : • Test tape : TTA–602
    • Test point : TP8, TP9
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjutment location : SFR451 (Lch)
    SFR452 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

16. REC/PB Sensitivity Adjustment
    Settings : • Test tape : TTA–602
    • Test point : TP8, TP9
    • Input signal : 1kHz (LINE IN)
    • Adjutment location : SFR305 (Lch)
    SFR306 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 21mV. Record and play back the 1kHz signals and adjust SFRs so that the output is 21mV ± 0.5dB.

17. Bias OSC Frequency Adjustment
    Settings : • Test tape : TTA–601
    • Test point : TP10 (R311)
    • Adjustment location : L451
    Method : Set to the REC mode. Adjust L451 so that the frequency counter of the test point reads 85kHz ± 0.1kHz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	6dB ± 6dB
(THD 3%)	(87.5 / 98.0 / 108.0MHz)
S/N 50dB Quieting sensitivity :	
	31dB ± 5dB
	(87.5 / 98.0 / 108.0MHz)
Signal to noise ratio :	More than 64dB (98.0MHz)
Distortion :	Less than 1.2% (98.0MHz)
Stereo separation :	More than 22dB (98.0MHz)
Intermediate frequency :	10.7MHz

<MW SECTION>

Sensitivity :	48 ~ 62dB (603kHz)
(S/N 20 dB)	47 ~ 59dB (999kHz)
	47 ~ 59dB (1404kHz)
Distortion :	Less than 1.5% (999kHz)
Intermediate frequency :	450kHz

<LW SECTION>

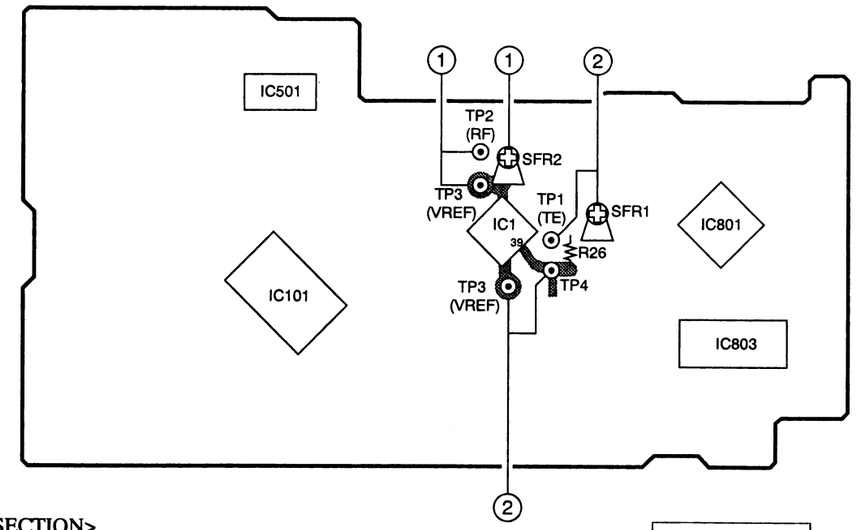
Sensitivity :	66dB ± 5dB (144kHz)
(S/N 20dB)	63dB ± 5dB (198kHz)
	62dB ± 5dB (290kHz)
Distortion :	Less than 1.5% (198kHz)
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.4% (R.M.S)
Take-up torque :	30 ~ 55g-cm (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB Output level :	2.8V ± 1.5dB (SP OUT 2V)
REC/PB Output level :	2.0V – 3.5dB ~ 2.0V + 0.5dB
	(SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0% (NORM, CrO2)
Noise level (PB) :	Less than 100mV / 170mV
	(DOLBY NR ON / OFF
	CrO2 Vol MAX.)
	Less than 90mV / 200mV
	(DOLBY NR ON / OFF
	NORM. Vol MAX.)
Noise level (REC/PB) :	Less than 3.0mV / 7.0mV
	(DOLBY NR ON / OFF
	CrO2 SP OUT 2V)
	Less than 3.5mV / 8.0mV
	(DOLBY NR ON / OFF
	NORM. SP OUT 2V)
Crosstalk :	More than 60dB (1kHz, 0VU)
Channel separation :	More than 40dB (1kHz, 0VU)
Erasing ratio :	More than 60dB (at 125Hz)
REC bias frequency :	85kHz
Test tape :	NORMAL : TTA–602
	CrO2 : TTA–610

ADJUSTMENT – 2 <CD>

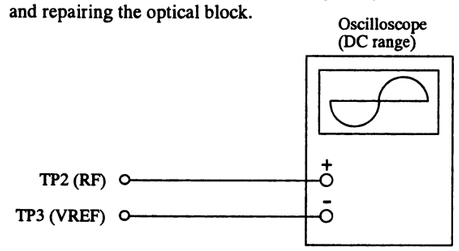
3CD C.B



<CD SECTION>

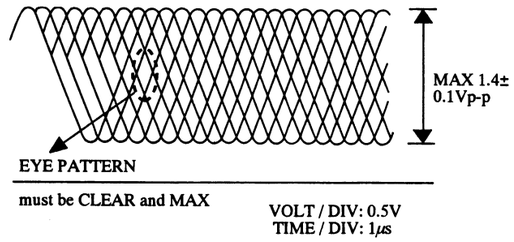
Note : Connect a probe (10:1) of the frequency counter or the oscilloscope to a test point.

1. Focus Blas Adjustment
   Make the focus bias adjustment when replacing and repairing the optical block.

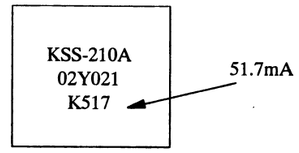


1) Connect an oscilloscope to the test points TP2 (RF) and TP3 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR2 so that RF signal of the test point TP2 (RF) is MAX and CLEARREST.

RF signal waveform

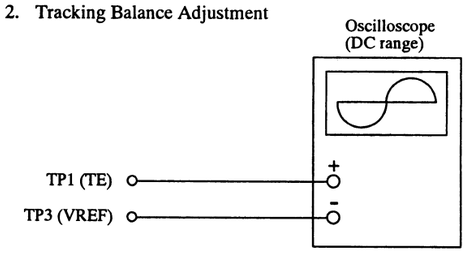


Note : The current of the laser signal can be checked with the voltages on both sides of R2 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.

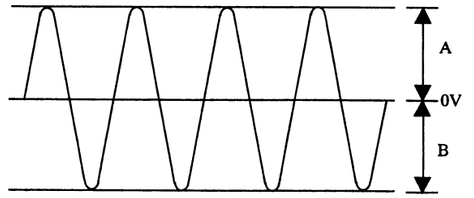


Laser current Iop = $\frac{\text{Voltage across R2}}{10\Omega}$

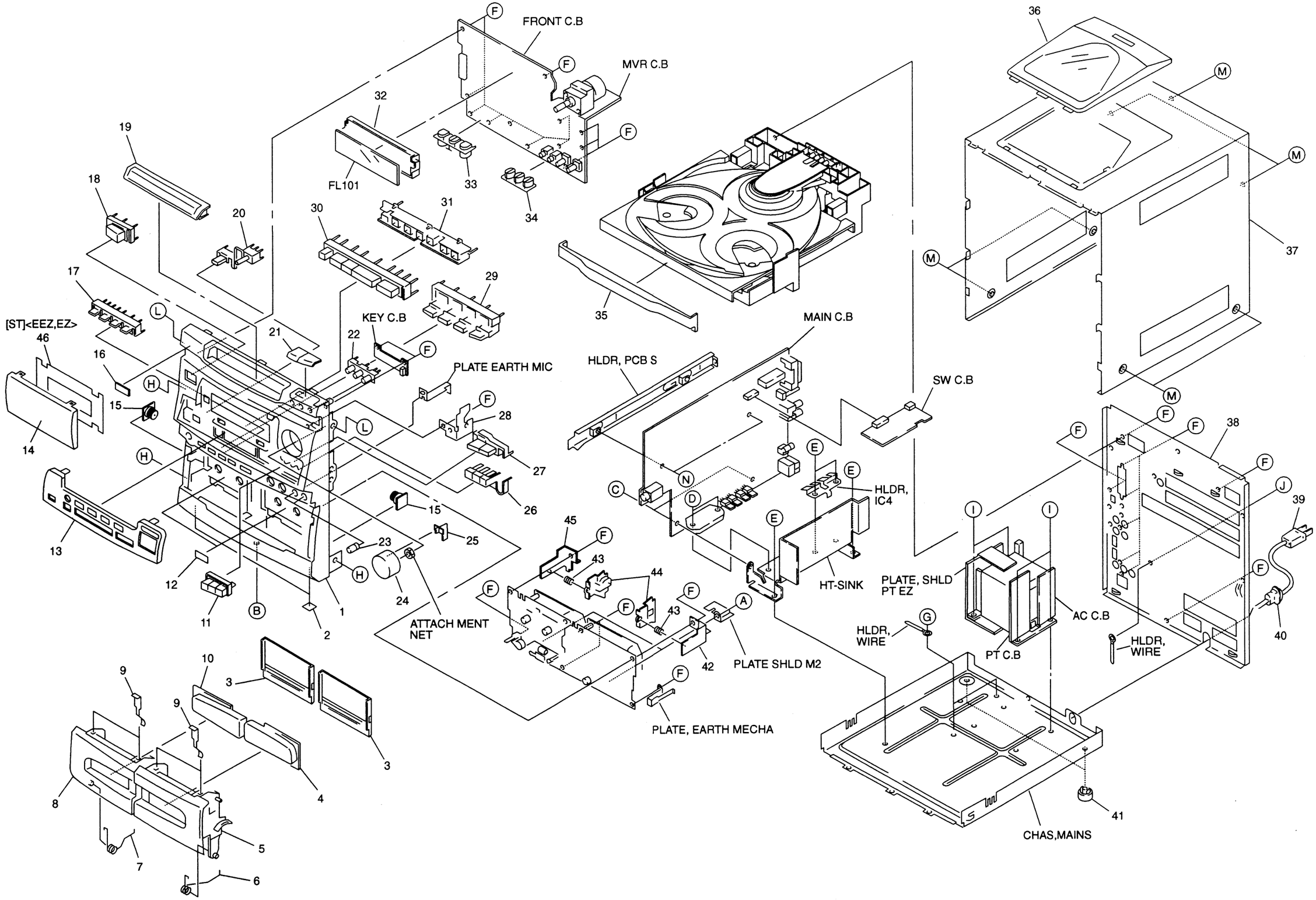
2. Tracking Balance Adjustment



1) Short circuit betweeb TP3 (VREF) and TP4.
2) Connect an oscilloscope to the test points TP1 (TE) and TP3 (VREF).
3) Turn on the power switch.
4) Insert test disc TCD-782 (YEDS-18) and press the PLAY button.
5) Adjust SFR1 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
6) After the adjustment is completed, remove the connected lead wires from the test point TP3 (VREF) and TP4.



MECHANICAL EXPLODED VIEW 1 / 1

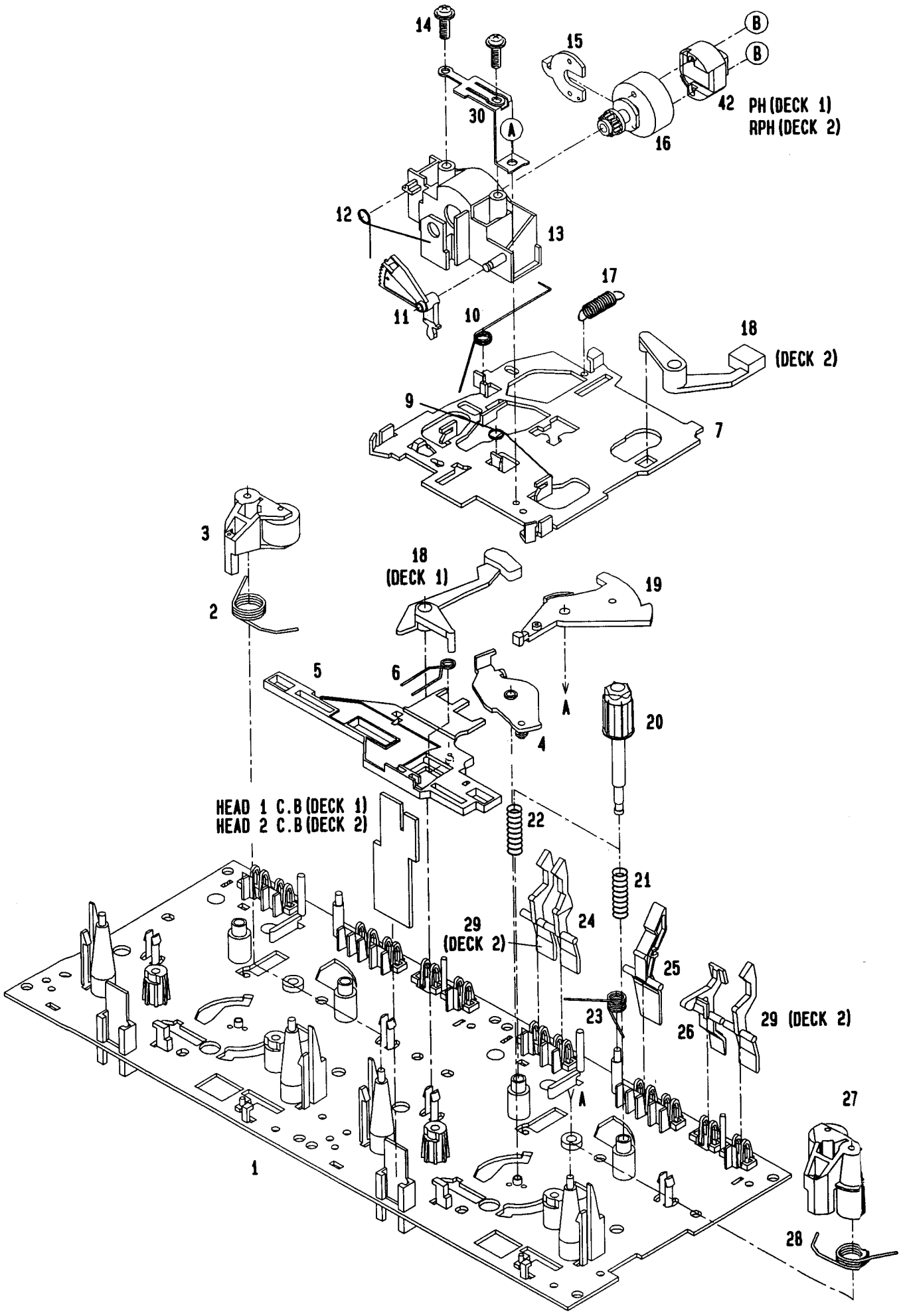


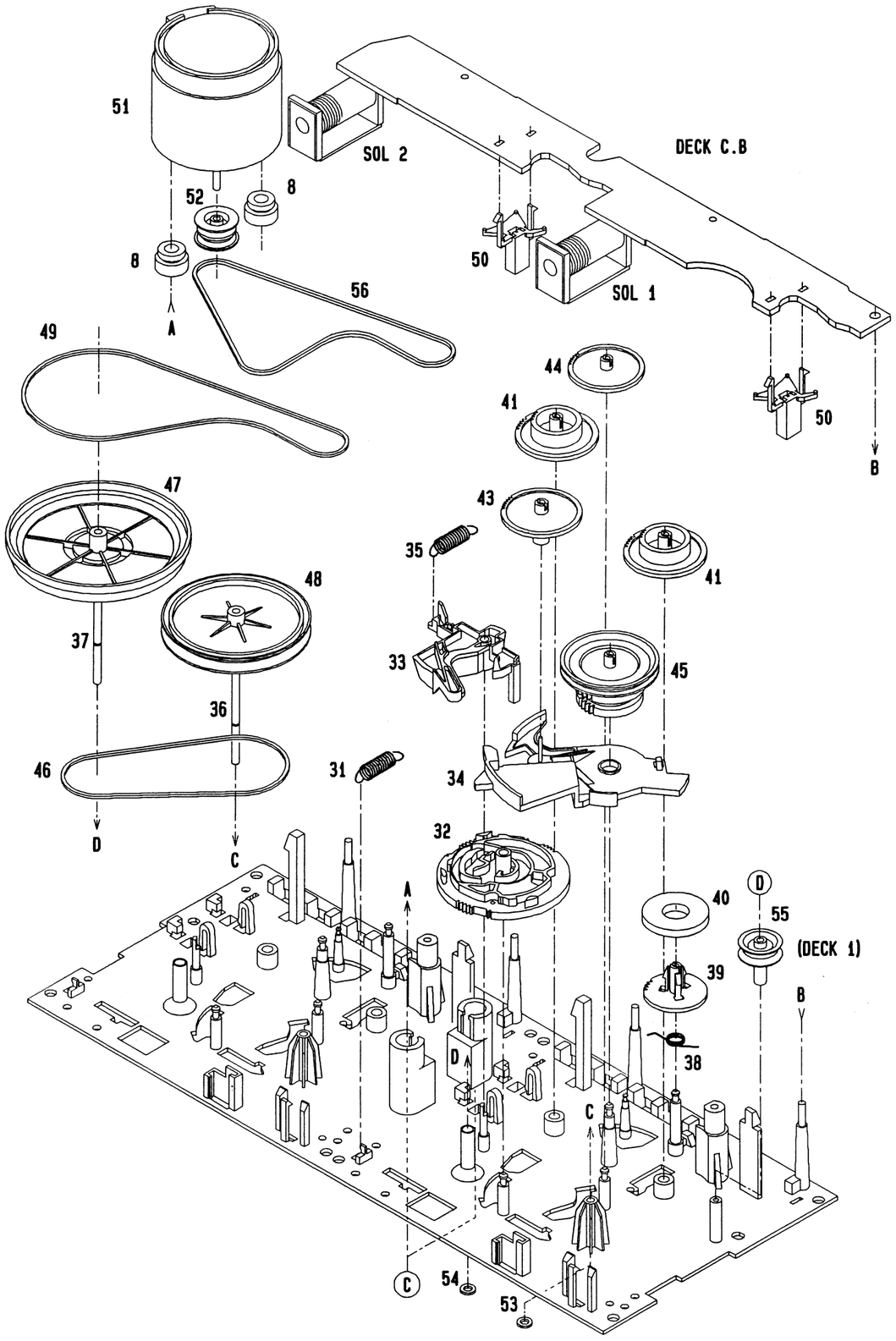
MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NF5-042-010		CAB,FR EZ<EXCEPT [ST]EZ>
1	85-NF5-044-010		CAB,FR TI<[ST]EZ>
2	80-VT1-202-010		FELT,12.5-15.5-2
3	85-NF5-026-010		IND,CASS
4	85-NF5-034-010		WINDOW,BOX 2
5	85-NF5-062-010		BOX,CASS2 EZ<EXCEPT [ST]EZ>
5	85-NF5-066-010		BOX,CASS2 TI<[ST]EZ>
6	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
7	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
8	85-NF5-061-010		BOX,CASS1 EZ<EXCEPT [ST]EZ>
8	85-NF5-065-010		BOX,CASS1 TI<[ST]EZ>
9	80-CD3-218-110		SPR-P CASS
10	85-NF5-033-010		WINDOW,BOX 1
11	85-NF5-021-010		KEY,DSP
12	81-532-080-010		LBL,CASS-COMPT
13	85-NF5-006-110		PANEL,CONTROL
14	85-NF5-035-010		WINDOW,DISPLAY
15	87-063-165-010		OIL-DMPR 150
16	82-NE6-067-010		BADGE AIWA 30N
17	85-NF5-023-010		KEY,DOLBY<EXCEPT [ST]EZ>
17	85-NF5-088-010		KEY,DOLBY TI<[ST]EZ>
18	85-NF5-013-010		KEY,POWER<EXCEPT [ST]EZ>
18	85-NF5-087-010		KEY,POWER TI<[ST]EZ>
19	85-NF5-032-010		WINDOW,CD
20	85-NF5-027-010		KEY,DUBB
21	85-NF5-011-010		KEY,OPEN<EXCEPT [ST]EZ>
21	85-NF5-086-010		KEY,OPEN TI<[ST]EZ>
22	85-NF5-012-010		KEY,DISC
23	83-NF5-020-010		KNOB,MIC
24	83-NF5-009-010		KNOB,VOL<EXCEPT [ST]EZ>
24	83-NFF-088-010		KNOB,VOL TI<[ST]EZ>
25	83-NF5-010-010		IND,VOL
26	85-NF5-022-010		KEY,GEQ
27	85-NF5-020-010		KEY,BBE
28	83-NF5-208-010		HLDR,FFC G
29	85-NF5-014-110		KEY ASSY,FUN
30	85-NF5-019-010		KEY,OPE
31	85-NF5-202-010		GUIDE,OPE
32	83-NF5-202-010		GUIDE,FL
33	83-NF5-210-010		GUIDE,LED L
34	83-NF5-211-010		GUIDE,LED R
35	85-NF5-073-010		PANEL,TRAY TI<[ST]EZ>
35	85-NF5-072-010		PANEL,TRAY U<EXCEPT [ST]EZ>
36	85-NF5-031-110		WINDOW,TOP
37	85-NF5-007-010		CAB,STEEL<EXCEPT [ST]EZ>
37	85-NF5-009-010		CAB,STEEL TI<[ST]EZ>
38	85-NF5-055-010		PANEL,REAR EEBNE<[B]EE>
38	85-NF5-056-010		PANEL,REAR EZBNE<EXCEPT[B]K,[B]EE>
38	85-NF5-057-010		PANEL,REAR KBNE<[B]K>
⚠ 39	87-050-016-010		AC CORD ASSY,E<EXCEPT [B]K>
⚠ 39	87-050-029-010		AC CORD ASSY,K 3P<[B]K>
40	87-085-185-010		BUSHING,AC CORD E
41	87-085-221-010		FOOT,H 13.5
42	82-NF5-226-010		HLDR,LOCK 1N
43	82-NF5-228-010		SPR-C,LOCK
44	82-NF5-229-010		PLATE,LOCK
45	82-NF5-227-010		HLDR,LOCK 2N
46	85-NF5-029-010		SH,TI<[ST]EZ>
A	87-571-032-410		VIT+2-3
B	87-067-689-010		BVTT+3-8
C	87-067-633-010		BVT2+3-8 W/CONVEX
D	87-067-698-010		BVT 2+3-18 (W/O SLOT)
E	87-067-579-010		BVT 2+3-8 W/O SLOT
F	87-067-703-010		BVT2+3-10 (W/O SLOT)
G	87-571-092-410		VIT+3-4
H	87-591-094-410		QIT + 3 - 6 GOLD
I	87-078-083-010		BUTT SEMS+4-8SW
J	87-084-077-010		NYLON RIVET DIA 3.5 - 4.5
L	87-721-097-410		QT2+3-12 GLD
M	87-067-641-010		UTT2+3-8 W/O SLOT BLK
N	87-078-084-010		BVTT+3-6 W,CONVEX

TAPE MECHANISM EXPLODED VIEW 1 / 1



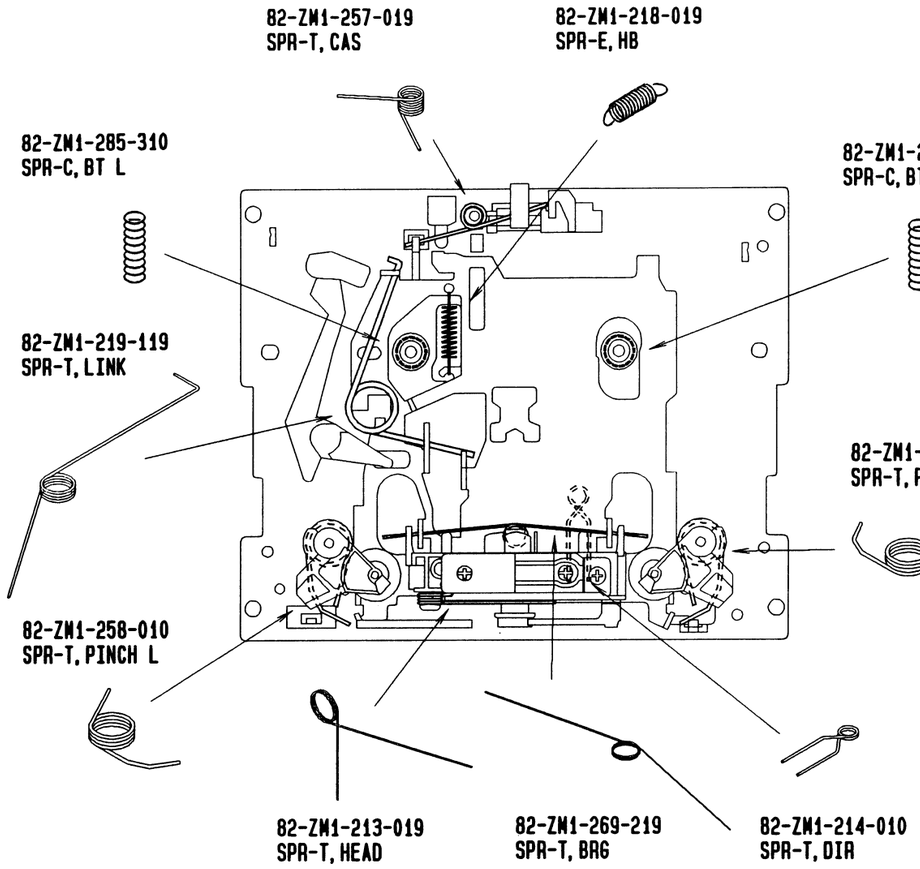


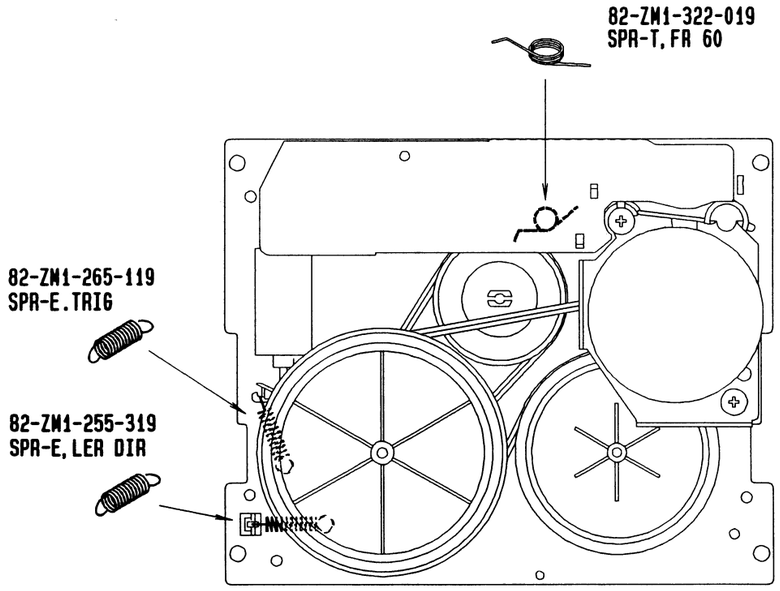
TAPE MECHANISM PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

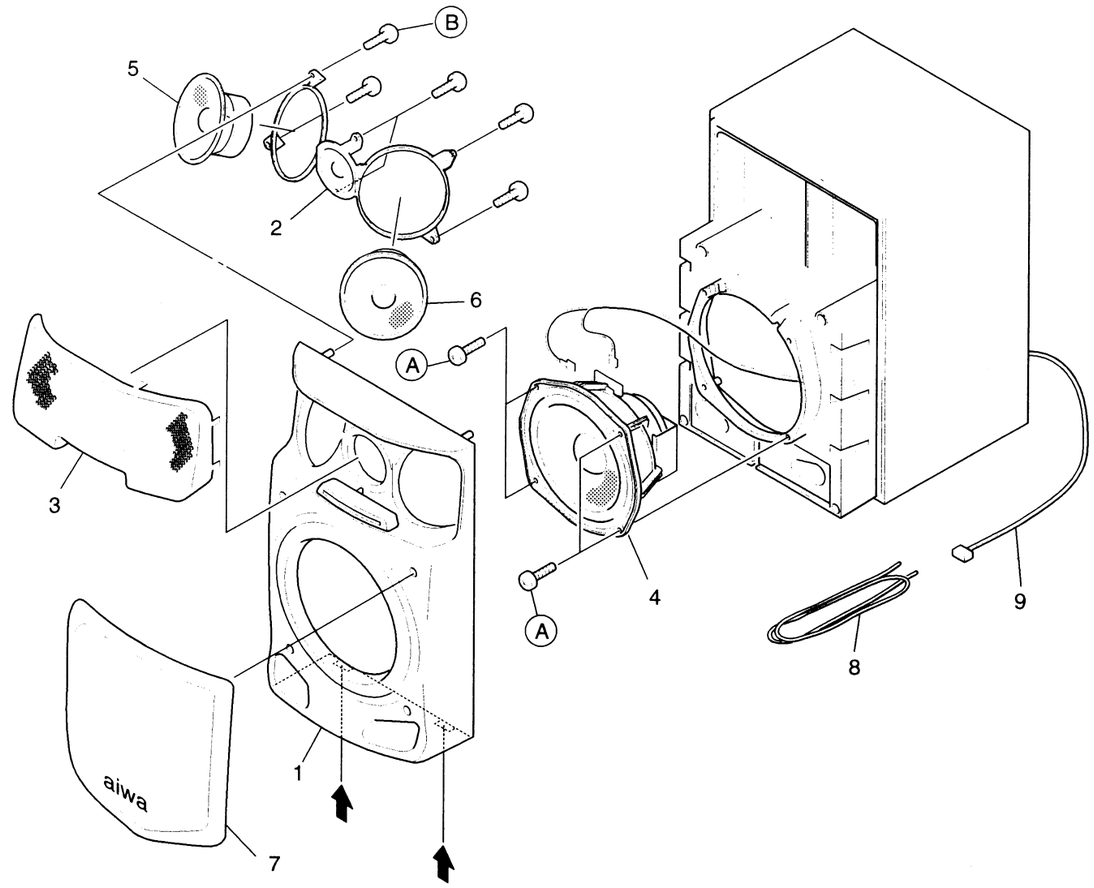
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-019		CHAS ASSY,M2
2	82-ZM1-258-010		SPR-T,PINCH L
3	82-ZM1-248-419		LVR ASSY,PINCH L
4	82-ZM1-295-31K		PLATE ASSY,LINK
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-61K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-019		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-519		GUIDE,TAPE
14	82-ZM1-283-310		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE HEAD
16	82-ZM1-208-019		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-11K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-410		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-253-419		LVR ASSY,PINCH R
28	82-ZM1-259-010		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
30	82-ZM1-298-010		SPR-P,EARTH
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-01K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TR1G
36	82-ZM1-313-019		CAPSTAN N 2-41.5
37	82-ZM1-312-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM1-316-010		RING MAGNET 3
41	82-ZM1-216-21K		GEAR,REEL
42	87-046-355-019		HEAD,PH HADKH2529B(PH)
42	87-046-356-019		HEAD,RPH HADKH5581B(RPH)
43	82-ZM1-225-11K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM1-228-510		SLIP DISK ASSY
46	82-ZM1-328-010		BELT FR2
47	82-ZM1-238-61K		FLY-WHL ASSY,R (DECK 2)
47	82-ZM3-210-51K		FLY-WHL ASSY,R2 (DECK 1)
48	82-ZM1-235-31K		FLY-WHL ASSY,L (DECK 2)
48	82-ZM3-208-41K		FLY-WHL ASSY,L2 (DECK 1)
49	82-ZM3-313-019		BELT R10
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-202-019		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-204-010		PULLEY,COUPLER (DECK 1)
56	82-ZM3-312-019		BELT P10
A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-067-972-019		PW,1.05-3-0.25 SLT

SPRING APPLICATION POSITION





SPEAKER EXPLODED VIEW 1 / 1



矢印の位置にマイナスドライバーを差し込んで、パネルをはずして、各々のスピーカー・ユニットのビスを取り、スピーカー・ユニットをはずしてください。

Insert a flat - bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

SPEAKER PARTS LIST 1 / 1

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NS5-023-010		PANEL FR,ST<[ST]Y>
1	85-NS5-001-010		PANEL FR<EXCEPT [ST]Y>
2	85-NS5-011-010		ADAPTOR ASSY
3	85-NS5-012-010		SPEAKER GRILL
4	85-NS5-602-010		SPEAKER WOOFER<EXCEPT [B]YL>
4	85-NS5-604-010		SPEAKER WOOFER<[B]YL>
5	83-NS5-608-010		SPEAKER MID H
6	83-NS5-610-010		SPEAKER H
7	85-NS5-020-010		GRILL FRAME ASSY
8	85-NS5-614-010		CORD 4P
9	83-NS5-613-010		SPEAKER CORD ASSY
A	87-343-172-010		UT1+4-12
B	87-342-097-010		UT1+3-10

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	85-NF5-905-010		IB,EGI-G<EXCEPT KBNE>
1	85-NF5-904-010		IB,ESF(E)-G
2	87-006-225-010		AM LOOP ANT NC2
3	87-043-106-010		FM,WIRE ANT (Z)
4	85-NF5-631-010		RC-T501

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

アイワ株式会社
AIWA CO.,LTD.

〒110 東京都台東区池之端1－2－11　☎03（3827）3111（代表）

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Tokyo Japan
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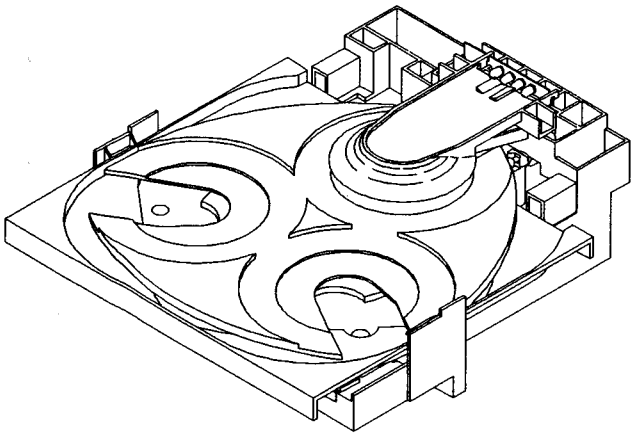
4ZG-1



CD MECHANISM

SERVICE MANUAL

• BASIC CD MECHANISM: KSM-2101 ABM

• TYPE: English.Japanese

BASIC NAME	DERIVATION							
	No.	NAME						
4Z G-1	A	GDFR	GDF	GD	GF	G		
	B	DFR	DF	FR	D	F		
	C	GDFR	GDF	DFR	GF	DF	FR	F
	D	GDFR	GDF	DFR	GD	DF	D	

For diffrent version of mechanism that may be introduced since the issue of this manual, only the new or modified points be discussed.

本マニュアル発行後の派生メカニズムは新規作成、相異点のみを発行します。

S/M Code No. 09-946-056-10T

SPECIFICATIONS

ディスク	: コンパクトディスク
読み取り方式	: 非接触光学式読み取り（半導体レーザー使用）
復号化	: 16 bit直線
ワウ　フラッター	: 測定限界以下
映像信号	: NTSC/PAL方式
映像出力端子	: ピンジャック1Vp-p、75Ω、不平衡

A ONLY

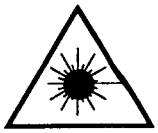
Disc	Compact disc
Scanning method	Non contact optical scanner (semiconductor laser application)
Laser	Semiconductor laser (λ = 780 nm)
No. of channels	2 channels
Video signal	NTSC/PAL
Video output	RCA pin jack 1 Vp-p, 75Ω unbalanced

A ONLY

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

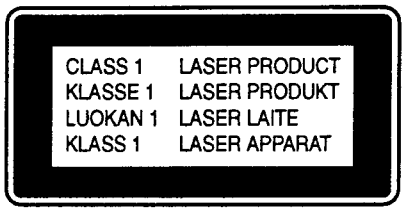
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



光学ブロック（KSS－210A）交換時の注意

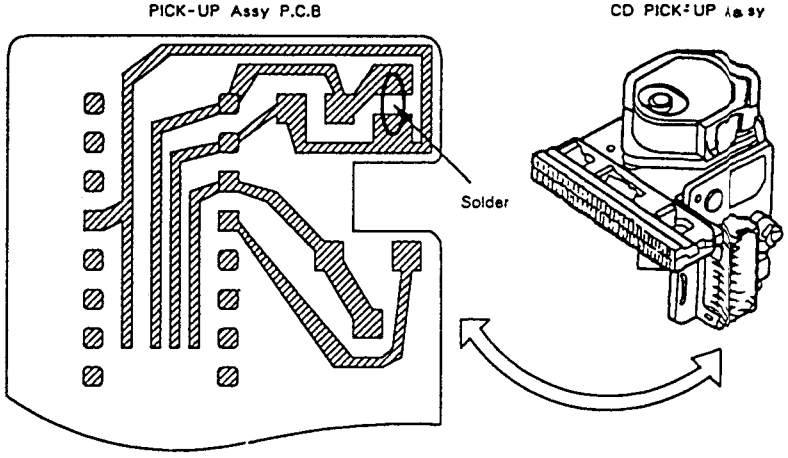
光学系ブロック内のレーザーダイオードは、衣服や人体に帯電した静電荷等で電位差を生じることにより、静電破壊することがあります。人体アース、作業台のアースをとり、衣服が触れぬよう注意して下さい。

1）コネクターを接続後、右図に示すハンダ付けを取り除いて下さい。

Precaution to replace Optical block (KSS－210A)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

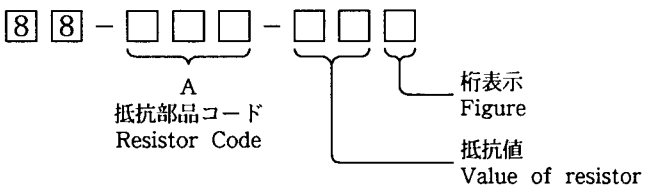
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-017-745-010	2A	IC, CXA1782BQ
	87-017-586-010	2Y	IC, CXD 2518Q
	87-017-825-019	1E	IC, GP1F32T〈EX FR, F, GF, G〉
	87-017-888-089	1A	IC, NJM4558MD
	87-020-501-080	1B	IC, TA78L005AP
	87-017-801-089	1F	IC, TA2058F
	87-001-982-019	1B	IC, TA7291S
	87-017-802-010	1C	IC, LC7872E〈GDFR, GDF, GF, GD, G〉
	87-002-892-089	1C	IC, MM1031XMR〈GDFR, GDF, GF, GD, G〉
	87-017-803-010	2A	IC, LC32464P-80〈GDFR, GDF, GF, GD, G〉
TRANSISTOR			
	87-026-463-089	0E	TR, 2SA933S
	87-026-233-089	0E	C-TR, DTA114TK
	87-026-211-089	0E	C-TR, DTA144EK T147
	87-118-182-080	0E	TR, 2SA1818Q
	89-318-155-089	0E	TR, 2SC1815GR
	89-320-011-089	0E	TR, 2SC2001K
	87-026-213-089	0E	C-TR, DTC114YK
	87-026-608-089	0E	C-TR, DTC 123 JK〈EX GD, D, G〉
DIODE			
	87-002-564-089	0E	DIODE 1SS133 RA
	87-020-465-089	0E	DIODE, ISS133
	87-020-465-080	0E	DIODE, ISS133〈GDFR, GDF, GF, GD, G〉
3CD C.B			
C11	87-010-182-089	0E	C-CAP, S 2200P-50 B
C12	87-010-196-089	0E	C-CAP, S 0.1-25 F
C13	87-010-196-089	0E	C-CAP, S 0.1-25 F
C14	87-010-196-089	0E	C-CAP, S 0.1-25 F
C15	87-010-404-089	0E	CAP, E 4.7-50 SME
C16	87-010-193-089	0E	C-CAP, S 0.033-25 F
C17	87-010-197-089	0E	C-CAP, S 0.01-25 B
C18	87-010-403-049	0E	CAP, E 3.3-50 SME
C19	87-010-382-049	0E	CAP, E 22-25 SME
C20	87-010-213-089	0E	C-CAP, S 0.015-25 B
C21	87-010-197-089	0E	C-CAP, S 0.01-25 B
C22	87-010-263-049	0E	CAP, E 100-10
C23	87-015-819-089	0E	CHIP CAP 0.01
C24	87-010-193-089	0E	C-CAP, S 0.033-25 F
C25	87-010-197-089	0E	C-CAP, S 0.01-25 B
C26	87-010-193-089	0E	C-CAP, S 0.033-25 F
C27	87-010-197-089	0E	C-CAP, S 0.01-25 B
C28	87-010-146-089	0E	C-CAP, S 2P-50 CH
C29	87-010-154-089	0E	C-CAP, S 10P-50 CH
C30	87-010-263-089	0E	CAP, E 100-10 SME 5X11
C31	87-010-178-089	0E	C-CAP, S 1000P-50 B
C32	87-010-198-089	0E	C-CAP, S 0.022-25 B
C33	87-010-196-089	0E	C-CAP, S 0.1-25 F
C34	87-010-197-089	0E	C-CAP, S 0.01-25 B
C35	87-010-263-089	0E	CAP, E 100-10 SME 5X11
C36	87-010-248-089	0E	CAP, E 220-10 SME
C37	87-010-197-089	0E	C-CAP, S 0.01-25 B
C38	87-010-260-089	0E	CAP, E 47-25 SME
C39	87-010-196-089	0E	C-CAP, S 0.1-25 F
C40	87-010-197-089	0E	C-CAP, S 0.01-25 B
C41	87-010-197-089	0E	C-CAP, S 0.01-25 B
C42	87-010-178-089	0E	C-CAP, S 1000P-50 B
C101	87-010-194-089	0E	C-CAP, S 0.047-25 F
C102	87-010-180-089	0E	C-CAP, S 1500P-50 B
C103	87-010-182-089	0E	C-CAP, S 2200P-50 B
C104	87-012-156-089	0E	C-CAP, S 220P-50 CH
C105	87-010-404-089	0E	CAP, E 4.7-50 SME
C106	87-010-263-049	0E	CAP, E 100-10
C107	87-010-197-089	0E	C-CAP, S 0.01-25 B
C108	87-010-400-049	0E	CAP, E 0.47-50
C109	87-010-197-089	0E	C-CAP, S 0.01-25 B
C110	87-010-194-089	0E	C-CAP, S 0.047-25 F
C111	87-010-154-089	0E	C-CAP, S 10P-50 CH
C112	87-010-318-089	0E	C-CAP, S 47P-50〈EX FR, F, GF, G〉
C113	87-010-263-089	0E	CAP, E 100-10 SME 5X11
C114	87-010-197-089	0E	C-CAP, S 0.01-25 B
C115	87-010-314-089	0E	C-CAP, S 22P-50 CH
C116	87-010-315-089	0E	C-CAP, S 27P-50 CH
C117	87-010-197-089	0E	C-CAP, S 0.01-25 B
C118	87-010-263-089	0E	CAP, E 100-10〈EX FR, F, GF, G〉
C119	87-010-197-089	0E	C-CAP, S 0.01-25〈EX FR, F, GF, G〉
C201	87-012-153-089	0E	C-CAP, S 120P-50 CH
C202	87-012-153-089	0E	C-CAP, S 120P-50 CH
C203	87-010-321-089	0E	C-CAP, S 82P-50 CH
C204	87-010-321-089	0E	C-CAP, S 82P-50 CH
C205	87-010-321-089	0E	C-CAP, S 82P-50 CH
C206	87-010-321-089	0E	C-CAP, S 82P-50 CH
C207	87-012-153-089	0E	C-CAP, S 120P-50 CH
C208	87-012-153-089	0E	C-CAP, S 120P-50 CH
C209	87-012-153-089	0E	C-CAP, S 120P-50 CH
C210	87-012-153-089	0E	C-CAP, S 120P-50 CH
C211	87-010-401-089	0E	CAP, E 1-50 SME
C212	87-010-401-089	0E	CAP, E 1-50 SME
C213	87-010-186-089	0E	C-CAP, S 4700P-50 B
C214	87-010-186-089	0E	C-CAP, S 4700P-50 B
C231	87-010-221-089	0E	CAP, E 470-10
C232	87-010-263-089	0E	CAP, E 100-10 SME 5X11
C301	87-010-196-089	0E	C-CAP, S 0.1-25 F
C302	87-010-404-049	0E	CAP, E 4.7-50 SME
C303	87-010-263-089	0E	CAP, E 100-10 SME 5X11
C304	87-010-196-089	0E	C-CAP, S 0.1-25 F
C305	87-010-196-089	0E	C-CAP, S 0.1-25 F
C306	87-010-221-089	0E	CAP, E 470-10
C501	87-016-459-049	0E	CAP, E 470-10 SMG
C502	87-010-197-089	0E	C-CAP, S 0.01-25 B
C503	87-010-260-049	0E	CAP, E 47-25 SME
C504	87-010-197-089	0E	C-CAP, S 0.01-25 B
C505	87-010-196-089	0E	C-CAP, S 0.1-25 F
C506	87-010-196-089	0E	C-CAP, S 0.1-25 F
C507	87-010-196-089	0E	C-CAP, S 0.1-25 F
C508	87-010-196-089	0E	C-CAP, S 0.1-25 F
C509	87-010-197-089	0E	C-CAP, S 0.01-25 B
C510	87-010-178-089	0E	C-CAP, S 1000P-50 B
C601	87-010-197-089	0E	C-CAP, S 0.01-25 B
C602	87-010-381-089	0E	CAP, E 330-16 SME
C603	87-010-196-089	0E	C-CAP, S 0.1-25 F
C701	87-010-178-089	0E	C-CAP, S 1000P-50 B
C702	87-015-627-089	0E	C-CAP, 1000P-50 B
C703	87-010-318-089	0E	C-CAP, S 47P-50 CH
C704	87-015-627-089	0E	C-CAP, 1000P-50 B
C801	87-010-197-089	0E	C-CAP, S0.01-25〈GDFR, GDF, GF, GD, G〉
C802	87-010-260-089	0E	CAP, E 47-25〈GDFR, GDF, GF, GD, G〉
C803	87-010-194-089	0E	C-CAP, 0.047-25〈GDFR, GDF, GF, GD, G〉
C804	87-010-260-089	0E	CAP, E 47-25〈GDFR, GDF, GF, GD, G〉
C805	87-015-819-089	0E	C-CAP 0.01〈GDFR, GDF, GF, GD, G〉
C806	87-010-260-089	0E	CAP, E 47-25〈GDFR, GDF, GF, GD, G〉
C807	87-010-405-089	0E	CAP, E 10-50〈GDFR, GDF, GF, GD, G〉
C808	87-010-197-089	0E	C-CAP 0.01-25〈GDFR, GDF, GF, GD, G〉
C809	87-010-405-089	0E	CAP, E10-50〈GDFR, GDF, GF, GD, G〉
C810	87-010-313-089	0E	C-CAP, 18P-50〈GDFR, GDF, GF, GD, G〉
C811	87-010-314-089	0E	C-CAP, 22P-50〈GDFR, GDF, GF, GD, G〉
C812	87-010-313-089	0E	C-CAP, 18P-50〈GDFR, GDF, GF, GD, G〉
C813	87-010-315-089	0E	C-CAP, 27P-50〈GDFR, GDF, GF, GD, G〉
C814	87-010-197-089	0E	C-CAP, 0.01-25〈GDFR, GDF, GF, GD, G〉
C815	87-010-260-089	0E	CAP, E 47-25〈GDFR, GDF, GF, GD, G〉
C816	87-010-260-089	0E	CAP, E 47-25〈GDFR, GDF, GF, GD, G〉
C817	87-010-221-089	0E	CAP, E 470-10〈GDFR, GDF, GF, GD, G〉
C818	87-010-196-089	0E	C-CAP, 0.1-25 F〈GDFR, GDF, GF, GD, G〉
C819	87-010-321-089	0E	C-CAP, 82P-50〈GDFR, GDF, GF, GD, G〉

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
C820	87-015-627-089	0E	C-CAP, 1000P-50〈GDFR, GDF, GF, GD, G〉
EMI801	87-008-474-089	0E	F-BEAD, EMI〈GDFR, GDF, GF, GD, G〉
EMI802	87-008-474-089	0E	F-BEAD, EMI〈GDFR, GDF, GF, GD, G〉
J801	87-009-502-010	1A	JACK, PIN 1PY〈GDFR, GDF, GF, GD, G〉
L11	87-003-295-089	0E	COIL, 10UH
M601	87-045-305-019	1E	MOTOR, RF-500TB
SFR11	87-024-175-089	0E	SFR, 47K DIA6 V
SW701	87-036-109-019	0E	SW, PUSH SPPB 61
SW702	87-036-109-019	0E	SW, PUSH SPPB 61
W1	84-ZG1-614-019	1A	CABLE FFC 5P-1.25
X101	87-030-313-089	1B	VIB, X 16.9344
X801	80-JUC-602-080	1E	VIB, X 17.73〈GDFR, GDF, GF, GD, G〉
X802	80-JUC-601-080	1E	VIB, X 14.31〈GDFR, GDF, GF, GD, G〉

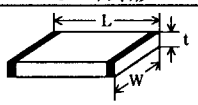
REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
LED C.B			
LED701	87-017-806-010	0E	LED, SEL 1810DM〈EX GD, D, G, N〉
LED702	87-017-350-080	0E	LED, SEL1550CM〈EX GD, D, G, N〉
LED703	87-017-350-080	0E	LED, SEL1550CM〈EX GD, D, G, N〉
LED704	87-017-806-010	0E	LED, SEL 1810DM〈EX GD, D, G, N〉
T-T C.B			
C401	87-018-214-089	0E	CAP TC U 0.1-50 F
PS401	87-026-573-019	1B	P-SNSR, GP1S53V
MOTOR-1 C.B			
M1	9X-062-513-210	2H	SLED MOTOR ASSY
PIN3	91-564-722-110	0E	CONNCTO 6P
SW2	91-572-085-110	1B	LEAF SW

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

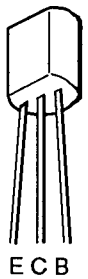
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



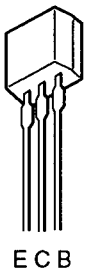
チップ抵抗
Chip resistor

Wattage 容量	Type 種類	Tolerance 許容誤差	Symbol 記号	Dimensions／寸法 (mm) Form/外形	L	W	t	Resistor Code : A 抵抗コード : A
1/32W	1608	±5%	CJ		1.6	0.8	0.35	108
1/10W	2125	±5%	CJ		2	1.25	1.45	118
1/8W	3126	±5%	CJ		3.2	1.6	0.5 ~0.7	128

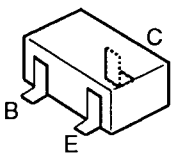
TRANSISTOR ILLUSTRATION



2SA1818Q
2SC2001

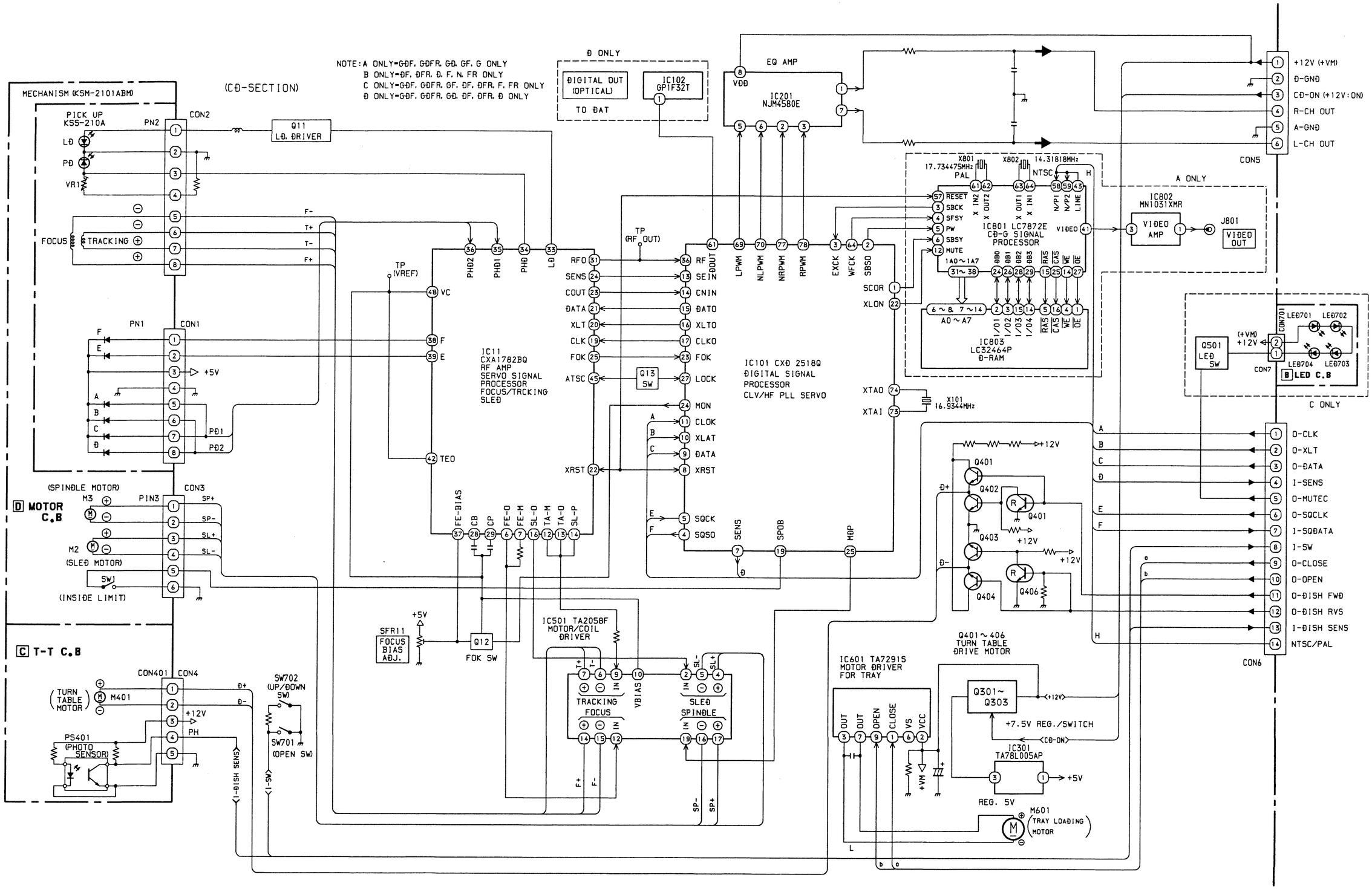


2SA933

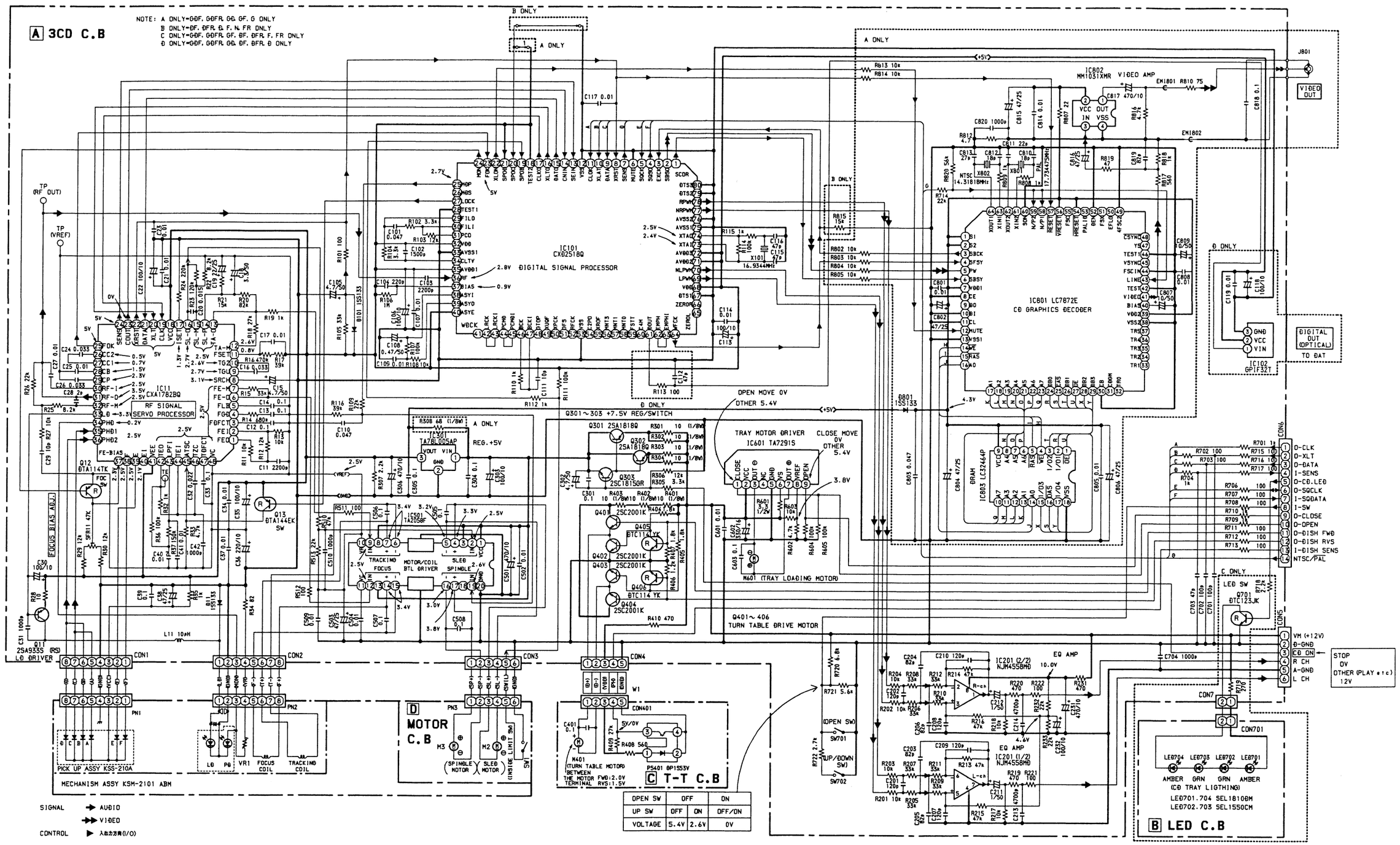


DTA114TK
DTA144EK
DTC114YK
DTC123JK

BLOCK DIAGRAM

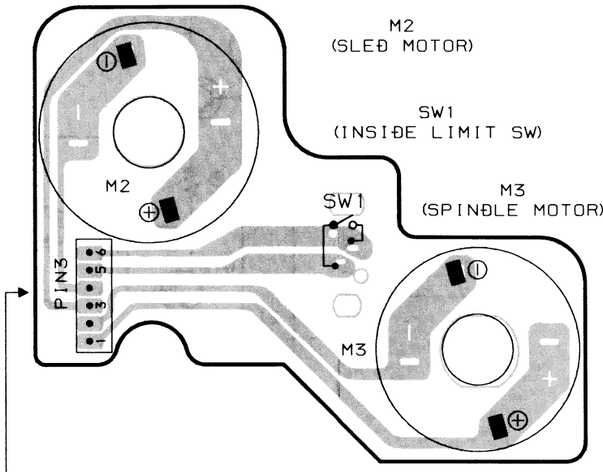


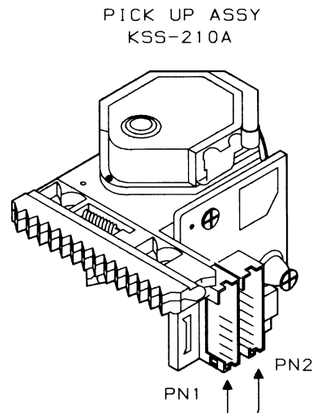
SCHEMATIC DIAGRAM – 1



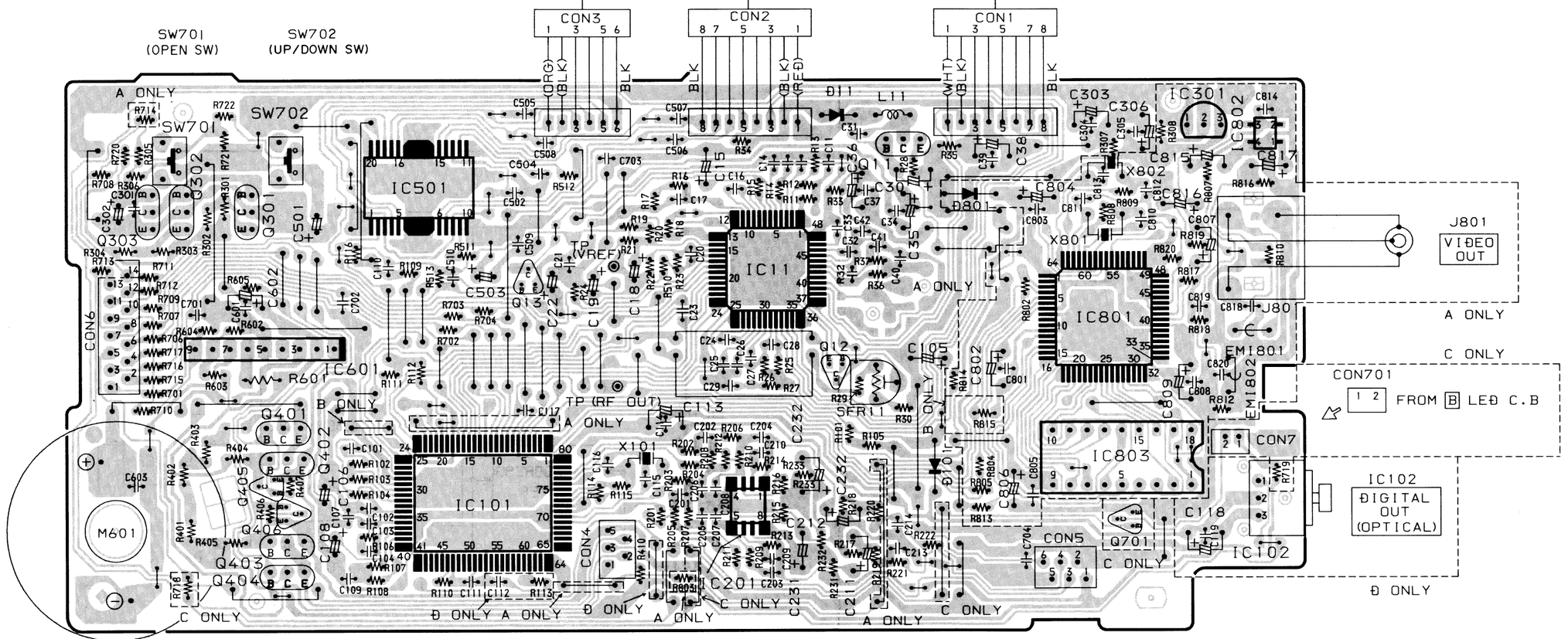
OPEN SW	OFF		ON
UP SW	OFF	ON	OFF/ON
VOLTAGE	5.4V	2.6V	0V

Đ MOTOR C.B





A 3CĐ C.B

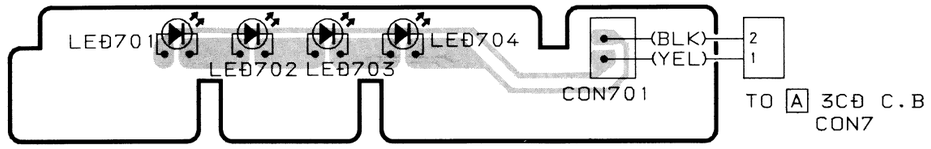


NOTE: A ONLY=GĐF, GĐFR, GĐ, GF, G ONLY
B ONLY=ĐF, ĐFR, Đ, F, N, FR ONLY
C ONLY=GĐF, GĐFR, GF, ĐF, ĐFR, F, FR ONLY
Đ ONLY=GĐF, GĐFR, GĐ, ĐF, ĐFR, Đ ONLY

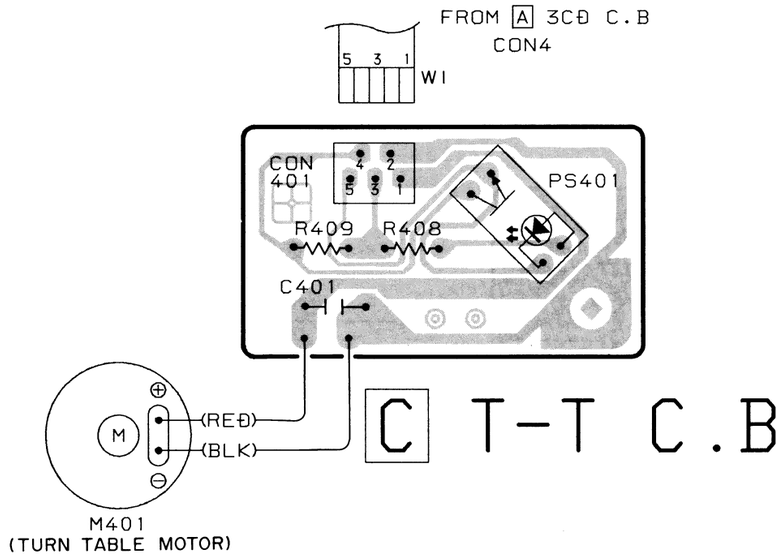
WIRING – 2

C ONLY

B LEÐ C.B



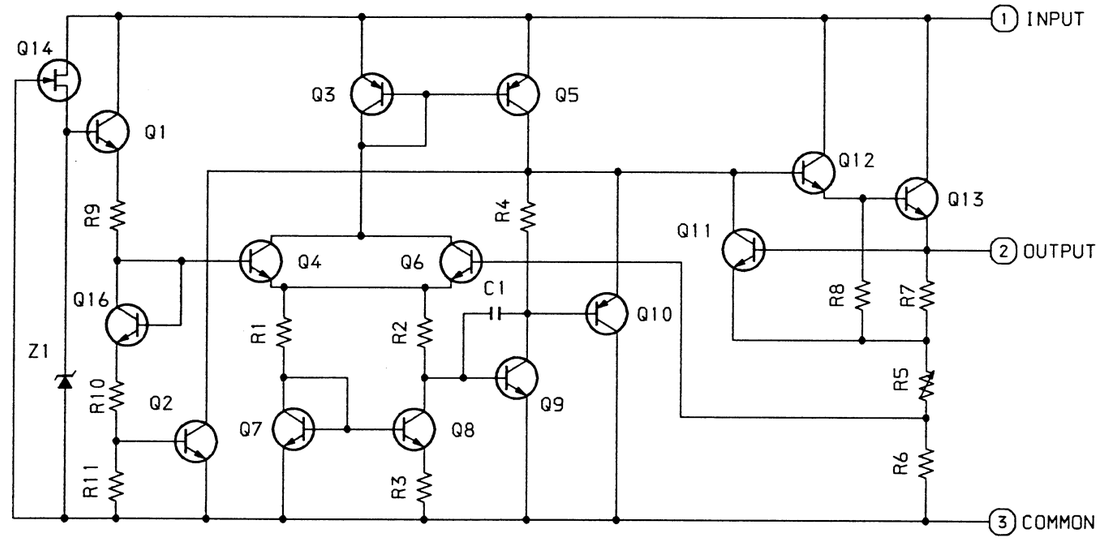
LEÐ701 704
(CÐ TRAY LIGHTING)



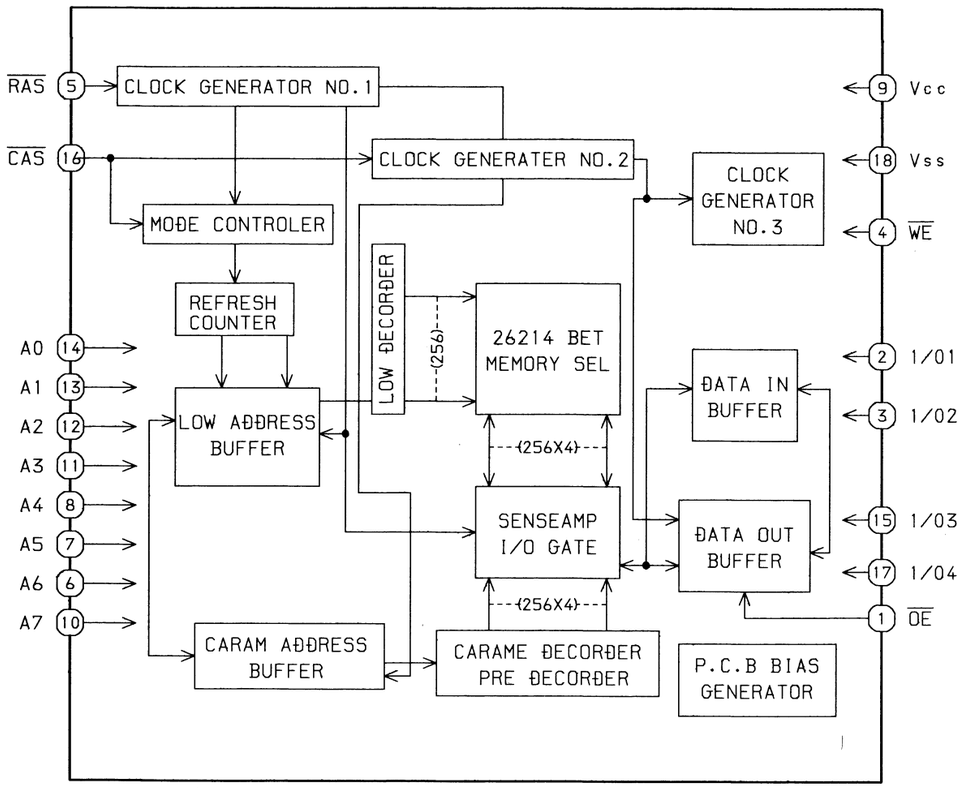
C T-T C.B

IC BLOCK DIAGRAM

IC,TA78L005AP



IC,LC3246P – 80



IC DESCRIPTION

IC,LC7872E

端子番号	端子名称	I／O	機能説明
1	S1	I	CD用DSP選択端子（VDDに接続）
2	S2	I	

S1	S2	CD用DSP
0	0	LC7861N／67
1	0	LC7860K／63
1	1	LC7868／69／681

端子番号	端子名称	I／O	機能説明
3	SBCK	O	サブコードR／W読み出しクロック。
4	SFSY	I	サブコードフレーム同期信号。
5	PW	I	サブコードR／Wデータ。
6	SBSY	I	サブコードブロック同期信号。
7	VDD1	—	デジタル系電源端子。
8	CE	I	シリアル入力あるいはシリアル出力時コントロールする端子。（GNDに接続）
9	DO	I	シリアルデータ出力。（未使用）
10	DI	I	シリアルデータ入力。（GNDに接続）
11	CL	I	シリアルデータ入出力時のクロック。（GNDに接続）
12	MUTE	I	サブコードデータを無効とする時のコントロール信号。
13	VSS1	—	デジタル系GND端子。
14	$\overline{WE}$	O	DRAMコントロール端子。
15	$\overline{RAS}$	O	DRAMコントロール端子。
16～23	A0～A7	O	DRAMアドレス端子。
24	DB0	I／O	DRAMデータ端子。
25	$\overline{CAS}$	O	DRAMコントロール端子。
26	DB1	I／O	DRAMデータ端子。
27	$\overline{OE}$	O	DRAMコントロール端子。
28	DB2	I／O	DRAMデータ端子。
29	DB3	I／O	DRAMデータ端子。
30	CB	I	“L”通常モード，“H”カラーバー出力。（GNDに接続）
31	CDGM	O	CDGディスク時“H”出力。（未使用）
32	TRANS0	O	Transparencyデジタル出力。（未使用）
33	TRANS1	O	Transparencyデジタル出力。（未使用）
34	TRANS2	O	Transparencyデジタル出力。（未使用）
35	TRANS3	O	Transparencyデジタル出力。（未使用）
36	TRANS4	O	Transparencyデジタル出力。（未使用）
37	TRANS5	O	Transparencyデジタル出力。（未使用）
38	VSS2	—	コンポジットビデオDAC GND端子。
39	VDD2	—	コンポジットビデオDAC 電源端子。
40	BIAS	O	リップル除去用コンデンサ接続端子。
41	VIDEO	O	コンポジットビデオ出力端子。（8bits DAC出力）
42	TEST	I	テストピン。通常使用時は“L”にすること。
43	LINE	I	NP2端子“H”の時 H：263H L：262H NP2端子“L”の時 H：312H L：314H
44	FSCIN	I	サブキャリアクロック入力端子。（帰還抵抗内蔵）
45	VSYNC	O	垂直同期信号出力端子。（未使用）
46	TEST1	I	テストピン。通常使用時は“L”にすること。

端子番号	端子名称	I／O	機 能 説 明
47	YS	O	スーパーインポーズコントロール出力。(未使用)
48	$\overline{\text{CSYNC}}$	O	複合同期信号出力。
49	4FSC2	I	スーパーインポーズ時外部クロック入力端子 (帰還抵抗内蔵)。(GNDに接続)
50	EFLG	O	エラー状況モニタ端子。(未使用)
51	FSX	O	エラー状況モニタトリガ用。(未使用)
52	DEN	I	DISC情報表示イネーブル端子。 H：BGC L：イネーブル (GNDに接続)
53	PALID	I	スーパーインポーズPAL時外部コントロール端子。(プルアップ抵抗内蔵) (未使用)
54	$\overline{\text{HRESET}}$	I	水平タイミング外部コントロール端子。(VDDに接続)
55	FSC	O	サブキャリアクロック出力。 NTSCモード：3.579545MHz PALモード：4.433619MHz (未使用)
56	$\overline{\text{VRESET}}$	I	垂直タイミング外部コントロール端子。(VDDに接続)
57	$\overline{\text{RESET}}$	I	リセット入力端子。
58	N／P1	I	NTSC／PAL選択端子。 “H”：NTSC “L”：PAL (RGBエンコーダ)
59	N／P2	I	NTSC／PAL選択端子 “H”：NTSC “L”：PAL (CD－Gデコーダ)
60	SON	I	スーパーインポーズON／OFF端子。(GNDに接続)
61	XIN2	I	水晶振動子接続端子。 17.734476MHz (PAL用)
62	XOUT2	O	水晶振動子接続端子。 17.734476MHz (PAL用)
63	XIN1	I	水晶振動子接続端子。 14.31818MHz (NTSC用)
64	XOUT1	O	水晶振動子接続端子。 14.31818MHz (NTSC用)

IC,LC7872E

Pin No.	Pin Name	I/O	Description
1	S1	I	DSP select pin for CD (Connected to VDD)
2	S2	I	

S1	S2	DSP for CD
0	0	LC7861N/67
1	0	LC7860K/63
1	1	LC7868/69/681

Pin No.	Pin Name	I/O	Description
3	SBCK	O	Subcode read/write clock.
4	SFSY	I	Subcode frame sync signal.
5	PW	I	Subcode read/write data.
6	SBSY	I	Subcode block sync signal.
7	VDD1	—	Power supply for digital block.
8	CE	I	Control pin when serial input or serial output. (Connected to GND)
9	DO	O	Serial data output. (Not used)
10	DI	I	Serial data input. (Connected to GND)
11	CL	I	Clock when inputting/outputting serial data. (Connected to GND)
12	MUTE	I	Control signal disabling the subcode.
13	VSS1	—	GND for digital block.
14	$\overline{WE}$	O	DRAM control pin.
15	$\overline{RAS}$	O	DRAM control pin.
16～23	A0～A7	O	DRAM address pin.
24	DB0	I/O	DRAM data pin.
25	$\overline{CAS}$	O	DRAM control pin.
26	DB1	I/O	DRAM data pin.
27	$\overline{OE}$	O	DRAM control pin.
28	DB2	I/O	DRAM data pin.
29	DB3	I/O	DRAM data pin.
30	CB	I	"L": Normal mode "H": Color bar output (Connected to GND)
31	CDGM	O	"H" output when CDG disk. (Not used)
32	TRANS0	O	Transparency digital output. (Not used)
33	TRANS1	O	Transparency digital output. (Not used)
34	TRANS2	O	Transparency digital output. (Not used)
35	TRANS3	O	Transparency digital output. (Not used)
36	TRANS4	O	Transparency digital output. (Not used)
37	TRANS5	O	Transparency digital output. (Not used)
38	VSS2	—	Composite video DAC GND pin.
39	VDD2	—	Composite video DAC power supply pin.
40	BIAS	O	Capacitor connecting pin for eliminating ripple.
41	VIDEO	O	Composite video output pin (8-bit DAC output).
42	TEST	I	Test pin. Set to "L" normally.
43	LINE	I	When NP2 pin is "H": H: 263H L: 262H When NP2 pin is "L": H: 312H L: 314H
44	FSCIN	I	Subcarrier clock input pin (feedback resistor is built in).
45	VSYNC	O	Vertical sync signal output pin. (Not used)
46	TEST1	I	Test pin. Set to "L" normally.

Pin No.	Pin Name	I/O	Description
47	YS	O	Superimpose control output. (Not used)
48	$\overline{\text{CSYNC}}$	O	Composite sync signal output.
49	4FSC2	I	External clock input terminal when superimpose (feedback resistor is built in). (Connected to GND)
50	EFLG	O	Error status monitor pin. (Not used)
51	FSX	O	For error status monitor trigger. (Not used)
52	DEN	I	Disk information display enable. H: BGC L: Enable (Connected to GND)
53	PALID	I	External control pin when superimposing with PAL (pull-up resistor is built in). (Not used)
54	$\overline{\text{HRESET}}$	I	Horizontal timing external control pin. (Connected to VDD)
55	FSC	O	Subcarrier clock output. NTSC mode: 3.579545 MHz PAL mode: 4.433619 MHz (Not used)
56	$\overline{\text{VRESET}}$	I	Vertical timing external control terminal. (Connected to VDD)
57	$\overline{\text{RESET}}$	I	Reset input pin.
58	N/P1	I	NTSC/PAL selection pin. (RGB encoder) "H": NTSC "L": PAL
59	N/P2	I	NTSC/PAL selection pin. (CD-G decoder) "H": NTSC "L": PAL
60	SON	I	Superimpose ON/OFF pin. (Connected to GND)
61	XIN2	I	Crystal oscillator 17.734476 MHz. (for PAL)
62	XOUT2	O	Crystal oscillator 17.734476 MHz. (for PAL)
63	XIN1	I	Crystal oscillator connection 14.31818 MHz. (for NTSC)
64	XOUT1	O	Crystal oscillator connection 14.31818 MHz. (for NTSC)

IC,CXA1782BQ

端子番号	端子名称	I／O	機 能 説 明
1	FEO	O	フォーカス・エラーアンプの出力端子です。内部でFZCコンパレータ入力に接続されています。
2	FEI	I	フォーカス・エラーの入力端子です。
3	FDFCT	I	ディフェクト時の時定数用コンデンサ接続端子です。
4	FGD	I	フォーカス・サーボの高域ゲイン補正。
5	FLB	I	フォーカス・サーボの低域持ち上げ用時定数外付け端子です。
6	FEO	O	フォーカス・ドライブ出力です。
7	FEM	I	フォーカス・アンプの反転入力端子です。
8	SRCH	I	フォーカス・サーチ波形を作るための時定数外付け端子です
9	TGU	I	トラッキング高域ゲイン切り換え用時定数外付け端子です。
10	TG2		
11	FSET	I	フォーカス・トラッキングの位相補償のピーク設定用端子です。
12	TAM	I	トラッキング・アンプの反転入力端子です。
13	TAO	O	トラッキングドライブ出力。
14	SLP	I	スレッド・アンプの非反転入力端子です。
15	SLM	I	スレッド・アンプの反転入力端子です。
16	SLO	O	スレッドドライブ出力。
17	ISET	I	フォーカスサーチ、トラックジャンプ、スレッドキックの高さを決める電流を流します。
18	VCC	—	+5V電源供給端子。
19	CLK	I	CXD2518Qからのシリアルデータ転送クロック入力です。
20	XLT	I	CXD2518Qからのラッチ入力です。
21	DATA	I	CXD2518Qからのシリアルデータ入力です。
22	XRST	I	リセット入力端子“L”でリセットします。
23	COUT	O	トラック数カウント用信号出力です。
24	SENS	O	CXD2518Qからのコマンドにより、FZC、DFCT、TZC、Gain、BAL、などを出力します。
25	FOK	O	フォーカスOKコンパレータの出力端子です。
26	CC2	O	DEFECTボトム・ホールド出力が容量結合されて入力される入力端子です。
27	CC1	I	DEFECTボトム・ホールド出力端子です。
28	CB	I	DEFECTボトム・ホールドコンデンサ接続端子です。
29	CP	I	MIRRホールド・コンデンサの接続端子です。かつ、MIRRコンパレータの非反転入力端子です。
30	RFI	I	RFサミングアンプの出力が容量結合されて入力される入力端子です。
31	RFO	O	RFサミングアンプの出力端子です。(TP1)
32	RFM	I	RFサミングアンプの反転入力端子です。 この端子とRFO端子間に接続された抵抗でRFアンプのゲインが決まります。
33	LD	O	APCアンプの出力端子です。
34	PHD	I	APCアンプの入力端子です。
35～36	PHD1～2	I	RF I－Vアンプの反転入力端子です。光学ピックアップのA＋C、B＋D端子に接続して電流入力で受けます。
37	BIAS	I	フォーカス・エラーアンプの非反転側のバイアス調整用端子です。
38～39	F～E	I	F、EのI－Vアンプの反転入力端子です。光学ピックアップのF、Eに接続して電流入力で受けます。

端子番号	端子名称	I/O	機 能 説 明
40	EI	—	I－VアンプEのゲイン調整用端子です。
41	VEE	—	GND接続端子。
42	TEO	O	トラッキング・エラーアンプの出力端子です。E－F信号が出力されます。
43	LPFI	I	BAL調整用コンパレータ入力端子です。(未使用)
44	TEI	I	トラッキング・エラーの入力端子です。
45	ATSC	I	ATSC検出用ウインドウコンパレータ入力端子です。
46	TZC	I	トラッキング・ゼロクロスコンパレータの入力端子です。
47	TDFCT	I	ディフェクト時の時定数用コンデンサ接続端子。
48	VC	O	VREFの直流電圧出力端子です。(VCC/2)

IC,CXA1782BQ

Pin No.	Pin Name	I/O	Description
1	FEO	O	Focus error amplifier output pin. This pin is connected to the FZC comparator input internally.
2	FEI	I	Focus error input pin.
3	FDFCT	I	Capacitor connection pin for time constant used when there is defect.
4	FGD	I	Corrects the focus servo high frequency gain.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FEO	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TAM	I	Tracking amplifier inverted input pin.
13	TAO	O	Tracking drive output.
14	SLP	I	Sled amplifier non-inverted input pin.
15	SLM	I	Sled amplifier inverted input pin.
16	SLO	O	Sled drive output.
17	ISET	I	The current which determines height of the focus search, track jump and sled kick is input.

Pin No.	Pin Name	I/O	Description
18	VCC	—	+ 5 V power supply pin.
19	CLK	I	Serial data transfer clock input from CPU (CXD2518Q).
20	XLT	I	Latch input from CPU (CXD2518Q).
21	DATA	I	Serial data input from CPU (CXD2518Q).
22	XRST	I	Reset input pin. Reset at L.
23	COUT	O	Signal output to count the number of tracks.
24	SENS	O	FZC, DFCT, TZC, Gain or BAL is output depending on the command from CPU (CXD2518Q).
25	FOK	O	Output pin of the focus OK comparator.
26	CC2	O	Input pin where the DEFECT bottom hold output is capacitance coupled.
27	CC1	I	DEFECT bottom hold output pin.
28	CB	I	This is a pin where the DEFECT bottom hold capacitor is connected.
29	CP	I	This is a pin where the MIRR hold capacitor is connected and MIRR comparator non-inverted signal is input.
30	RFI	I	Input pin where the RF summing amplifier output is capacitance coupled.
31	RFO	O	RF summing amplifier output pin. (TP1)
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35～36	PHD1～2	I	RF I-V amplifier inverted input pin. These pins are connected to the A+C and B+D pins of the optical pickup.
37	BIAS	I	Bias adjustment pin of the non-inverted side of the focus error amplifier.
38～39	F～E	I	F and E IV amplifier non-inverted input pins. These pins are connected to the F and E of the optical pickup.
40	EI	—	Gain adjustment pin of the I-V amplifier E.
41	VEE	—	GND connection pin
42	TEO	O	Tracking error amplifier output pin. E-F signal is output.
43	LPFI	I	BAL adjustment comparator input pin. (Not used.)
44	TEI	I	Tracking error input pin.
45	ATSC	I	Window comparator input pin for detecting ATSC.
46	TZC	I	Tracking zero-cross comparator input pin.
47	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
48	VC	O	DC voltage output pin of VREF. (VDD/2)

IC,CXD2518Q

端子番号	端子名称	I／O	機 能 説 明
1	SCOR	O	サブコードシンクS0かS1どちらか検出された時H。
2	SBSO	O	SUBP～Wのシリアル出力。
3	EXCK	I	SBSOリード・アウト用クロック入力。
4	SQSO	O	SUBQ 80BITのシリアル出力。
5	SQCK	I	SQSOリード・アウト用クロック入力。
6	MUTE	I	Hでミュート、Lで解除。
7	SENS	O	SENS出力、CPU（μPD78043GF）へ出力。
8	XRST	I	システムリセット、Lでリセット。
9	DATA	I	CPU（μPD78043GF）よりシリアルデータ入力。
10	XLAT	I	CPU（μPD78043GF）よりラッチ入力、立ち下がりでシリアルデータをラッチ。
11	CLOK	I	CPU（μPD78043GF）よりシリアルデータ転送クロック入力。
12	VSS	—	GND端子。
13	SEIN	I	SSP（CXA1782AQ）よりセンス入力。
14	CNIN	I	トラックジャンプ数カウント信号入力。
15	DATO	O	SSP（CXA1782AQ）へのシリアルデータ出力。
16	XLTO	O	SSP（CXA1782AQ）へのシリアルデータラッチ出力、立ち下がりでラッチ。
17	CLKO	O	SSP（CXA1782AQ）へのシリアルデータ転送クロック出力。
18	TEST2	I	TEST用端子。（＋5Vへ接続）
19～21	SPOB～D	I	INSIDE LIMIT SW入力。
22	XLON	O	LC7870E MUTE制御出力。
23	FOK	I	フォーカスOK入力端子、SENS出力とサーボ・オートシーケンサに用いる。
24	MON	O	スピンドルモータのON／OFFコントロール出力。
25	MDP	O	スピンドルモータのサーボ制御。
26	MDS	O	スピンドルモータのサーボ制御。（未使用）
27	LOCK	O	GFSを460Hzでサンプリングし、GFSがHの時H出力、8回連続Lの時L出力。（未使用）
28	TEST1	I	TEST用端子。（GNDへ接続）
29	FILO	O	マスターPLL用（スレーブ＝デジタルPLL）フィルター出力。
30	FILI	I	マスターPLL用フィルター入力。
31	PCO	O	マスターPLL用チャージポンプ出力。
32	VDD	—	電源端子。（＋5V）
33	AVSS1	—	GND端子。
34	CLTV	I	マスターPLL用VCOコントロール電圧入力。
35	AVDD1	—	電源端子。（＋5V）
36	RF	I	EFM信号入力。
37	BIAS	I	アシンメトリ補正回路定電流入力。
38	ASYI	I	アシンメトリ補正回路コンパレート電圧入力。
39	ASYO	O	EFMフルスイング出力。（L＝VSS、H＝VDD）
40	ASYE	I	L：アシンメトリ補正OFF、 H：アシンメトリ補正ON（＋5Vへ接続）。
41	WDCK	O	48bitスロット用D／Aインターフェイス、ワードクロック（2Fs）（未使用）。
42	LRCK	O	48bitスロット用D／Aインターフェイス、LRクロック（Fs）。

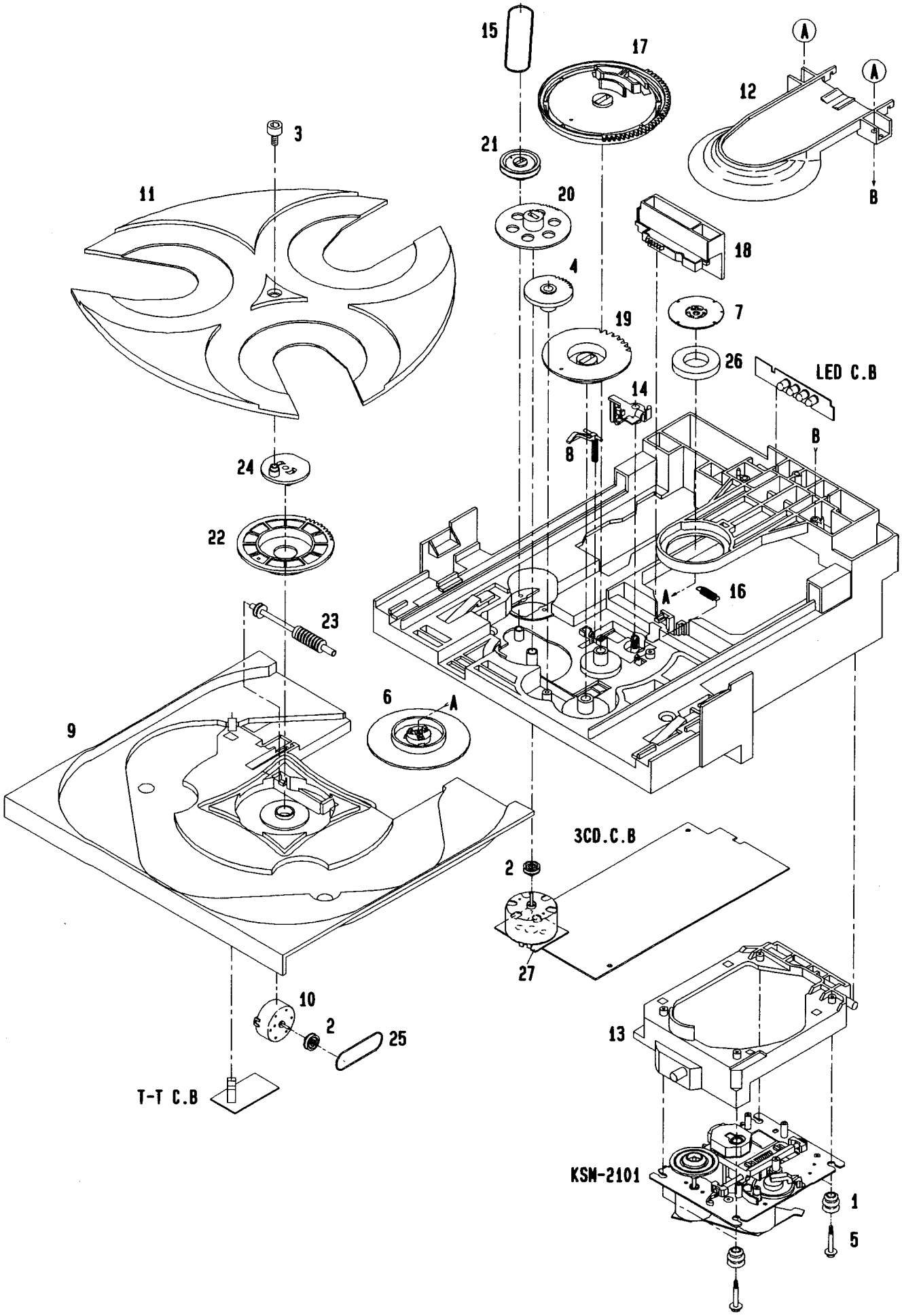
端子番号	端子名称	I/O	機 能 説 明
43	LRCKI	I	DACへのLRクロック入力。(48bitスロット)
44	PCMD	O	D/Aインターフェイス、シリアルデータ。(2'sCOMP, MSBファースト)
45	PCMDI	I	DACへのオーディオデータ入力。(48bitスロット)
46	BCK	O	D/Aインターフェイス、ビットクロック。
47	BCKI	I	DACへのビットクロック入力。(48bitスロット)
48	GTOP	O	GTOP出力。(未使用)
49	XUGF	O	XUGF出力。(未使用)
50	XPCK	O	XPLCK出力。(未使用)
51	GFS	O	GFS出力。(未使用)
52	RFCK	O	RFCK出力。(未使用)
53	VSS	—	GND端子。
54	C2PO	O	C2PO出力。(未使用)
55	XROF	O	XRAOF出力。(未使用)
56	MNT3	O	MNT3出力。(未使用)
57	MNT1	O	MNT1出力。(未使用)
58	MNT0	O	MNT0出力。(未使用)
59	FSTT	O	73,74端子の2/3分周出力。(未使用)
60	C4M	O	4.2336MHz出力。(未使用)
61	DOUT	O	Digital Out出力端子。(未使用)
62	EMPH	O	再生ディスクがエンファシス有りの時H、無しの時L。
63	EMPHI	I	DACのディエンファシスON/OFF、HでON、LでOFF。
64	WFCK	O	WFCK (WRITE FRAME CLOCK) 出力。
65	ZEROL	O	無音データ検出出力、無音データ検出時“H”(Lch)。(未使用)
66	ZEROR	O	無音データ検出出力、無音データ検出時“H”(Rch)。(未使用)
67	DTSI	I	DAC用テスト端子。(GNDへ接続)
68	VDD	—	電源端子。(+5V)
69	LPWM	O	Lch PWM出力。(正相)
70	NLPWM	O	Lch PWM出力。(逆相)
71	AVDD2	—	Lch PWMドライバ用電源。(+5Vへ接続)
72	AVDD3	—	Xtal用電源。(+5Vへ接続)
73	XTAI	I	33.8688MHzのXtal発振回路入力。
74	XTAO	O	33.8688MHzのXtal発振回路出力。
75	AVSS3	—	Xtal用電源。(GNDへ接続)
76	AVSS2	—	PWMドライバ用電源。(GNDへ接続)
77	NRPWM	O	Rch PWM出力。(逆相)
78	RPWM	O	Rch PWM出力。(正相)
79	DTS2	I	DAC用テスト端子2。(GNDへ接続)
80	DTS3	I	DAC用テスト端子3。(GNDへ接続)

IC,CXD2518Q

Pin No.	Pin Name	I/O	Description
1	SCOR	O	1H when the subcode sync S0 or S1 is detected. (Not used)
2	SBSO	O	SUBP~W serial output. (Not used)
3	EXCK	I	Clock input for SBSO read out.
4	SQSO	O	SUBQ 80-bit serial output.
5	SQCK	I	Clock input for SQSO read out.
6	MUTE	I	"H" to mute. "L" to cancel. Connected to GND.
7	SENS	O	SENS signal output to CPU (IC201).
8	XRST	I	System reset. "L" to reset.
9	DATA	I	Serial data input from CPU (IC201).
10	XLAT	I	Latch input from CPU (IC201). Latching serial data at fall down.
11	CLOK	I	Clock input from CPU (IC201) to transfer serial data.
12	VSS	—	GND.
13	SEIN	I	SENS input from SSP (CXA1782BQ).
14	CNIN	I	Numbers of track jump are counted and input.
15	DATO	O	Serial data output to SSP (CXA1782BQ).
16	XLTO	O	Serial data latched output to SSP (CXA1782BQ). Latched at fall down edge.
17	CLKO	O	Clock input from SSP (CXA1782BQ) to transfer serial data.
18	TEST2	I	TEST. (Connected to +5V)
19~21	SPOB~D	I	Input from INSIDE LIMIT switch (SW1).
22	XLON	O	LC7870E mute control output. (Not used)
23	FOK	I	Focus OK input pin. Used for SENS output and servo auto sequencer.
24	MON	O	Spindle motor ON/OFF control output.
25	MDP	O	Spindle motor servo control output.
26	MDS	O	Spindle motor servo control output. (Not used)
27	LOCK	O	GFS is sampled by 460Hz. H output when GFS is H. L output when GFS is L for 8 consecutive times.
28	TEST1	I	TEST. (Connected to GND)
29	FILO	O	Filter output to master PLL. (slave=digital PLL)
30	FILI	I	Filter input to master PLL.
31	PCO	O	Charge-pump output to master PLL.
32	VDD	—	Power supply input. (+5V)
33	AVSS1	—	GND.
34	CLTV	I	VCO control voltage input to master PLL.
35	AVDD1	—	Power supply input. (+5V)
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input to asymmetry correction circuit.
38	ASYI	I	Comparate voltage input to asymmetry correction circuit.
39	ASYO	O	EFM full swing output. (L=VSS, H=VDD)
40	ASYE	I	L: asymmetry correction OFF. H: asymmetry correction ON (connected to +5V)
41	WDCK	O	D/A interface, word clock (2Fs) for 48-bit slot. (Not used)
42	LRCK	O	D/A interface, LR clock (Fs) for 48-bit slot.

Pin No.	Pin Name	I/O	Description
43	LRCKI	I	LR clock input to DAC. (48-bit slot)
44	PCMD	O	D/A interface, serial data. (2's complement, MSB first)
45	PCMDI	I	Audio data input to DAC. (48-bit slot)
46	BCK	O	D/A interface, bit clock.
47	BCKI	I	Bit clock input to DAC. (48-bit slot)
48	GTOP	O	GTOP output. (Not used)
49	XUGF	O	XUFG output. (Not used)
50	XPCK	O	XPLCK output. (Not used)
51	GFS	O	GFS output. (Not used)
52	RFCK	O	RFCK output. (Not used)
53	VSS	—	GND.
54	C2PO	O	C2PO output. (Not used)
55	XROF	O	XRAOF output. (Not used)
56	MNT3	O	MNT3 output. (Not used)
57	MNT1	O	MNT1 output. (Not used)
58	MNT0	O	MNT0 output. (Not used)
59	FSTT	O	Pins-73 and -74 divided-by 2/3 output. (Not used)
60	C4M	O	4.2336MHz output. (Not used)
61	DOUT	O	Digital Out connector output signal.
62	EMPH	O	H when the playback disc has emphasis. "L" when it does not.
63	EMPHI	I	DAC emphasis ON/OFF. "H" when ON. "L" when OFF
64	WFCK	O	WFCK (WRITE FRAME CLOCK) output. (Not used)
65	ZEROL	O	No sound data detection output. H (L-ch) when no sound data is detected. (Not used)
66	ZEROR	O	No sound data detection output. H (R-ch) when no sound data is detected. (Not used)
67	DTSI	I	TEST for DAC. (Connected to GND)
68	VDD	—	Power supply input. (+5V)
69	LPWM	O	L-ch PWM output. (normal polarity)
70	NLPWM	O	L-ch PWM output. (reversed polarity)
71	AVDD2	—	Power supply input to L-ch PWM driver. (Connected to +5V)
72	AVDD3	—	Power supply input to X'tal. (Connected to +5V)
73	XTAI	I	X'tal input to 33.8688MHz oscillator circuit.
74	XTAO	O	33.8688MHz X'tal oscillator circuit output.
75	AVSS1	—	Power supply input to X'tal. (Connected GND)
76	AVSS2	—	Power supply input to PWM driver. (Connected to GND)
77	NRPWM	O	R-ch PWM output. (reversed phase)
78	RPWM	O	R-ch PWM output. (normal phase)
79	DTS2	I	TEST-2 for DAC. (Connected to GND)
80	DTS3	I	TEST-3 for DAC. (Connected to GND)

MECHANICAL EXPLODED VIEW 1/1

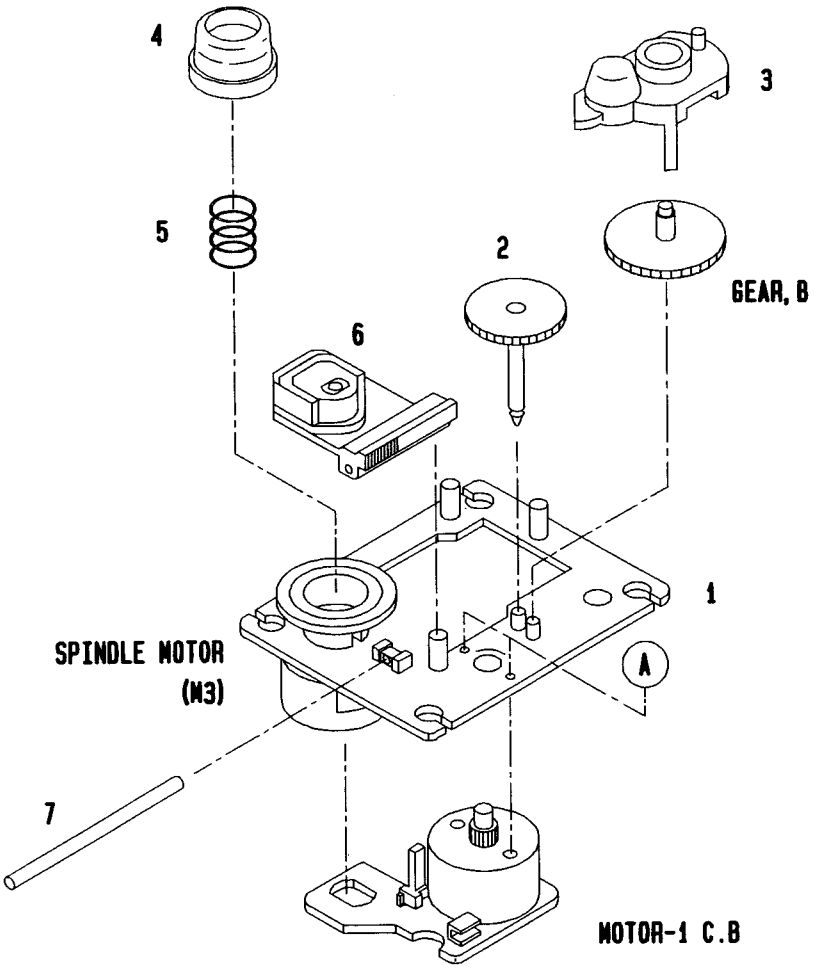


MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	ｶﾝﾘ NO.	DESCRIPTION
1	80-CD3-214-019	0E	CUSH CD A
2	81-ZG1-212-01K	0E	PULLY, LOAD MO
3	81-ZG1-239-019	0E	S-SCREW, TT
4	81-ZG1-250-019	0E	GEAR TRAY RELAY MK2
5	81-ZG1-271-019	0E	S-SCREW, MECH REAR
6	81-ZG1-288-019	1A	HLDR, MAGNET〈GDFR, DFR, FR〉
6	81-ZG1-277-019	1A	HLDR, MAGNET N〈EXCEPT GDFR, DFR, FR
7	81-ZG1-285-019	1A	PLATE, MAGENET N〈GDFR, DFR, FR〉
7	81-ZG1-255-019	1A	PLATE, MAGENET MK2〈DF, FR, F〉
8	83-ZG3-213-019	0E	LVR, SW
9	84-ZG1-001-010	1H	TRAY, NO1〈EXCEPT GDFR, DFR, FR〉
9	84-ZG1-002-010	1H	TRAY, NO1-B〈GDFR, DFR, FR〉
10	87-045-364-010	1F	MOTOR BCH3B(M401)
11	84-ZG1-005-010	1H	TURNTABLE, NO1
12	84-ZG1-010-010	1C	IND, CD N
13	84-ZG1-202-010	1C	HLDR, MECHA
14	84-ZG1-208-010	0E	LEVER, CAM
15	84-ZG1-209-010	0E	BELT, SQ1. 8-117. 7
16	84-ZG1-211-019	--	SPR-E CAM S
17	84-ZG1-215-010	1B	GEAR, MAIN CAM BLU
18	84-ZG1-216-010	1A	SLIDE, MECHA CAM YEL
19	84-ZG1-217-010	1A	GEAR, TRAY RED
20	84-ZG1-218-010	0E	GEAR, RELAY YEL
21	84-ZG1-219-010	0E	PULLY, RELAY BGE
22	84-ZG1-221-010	1B	GEAR, MAIN TT
23	84-ZG1-222-010	1A	GEAR, WORM SHAFT
24	84-ZG1-224-010	0E	LEVER, TT
25	84-ZG1-225-010	0E	BELT, SQ1. 0-63. 3
26	87-036-326-010	1A	MAGNET, CLAMPER 93
27	84-ZG1-230-019	1A	SHILD CORE, MOT
A	87-067-703-019	0E	BVT2+3-10 (W/O SLOT)

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	9X-262-513-310	2C	T.T CHASS ASSY W/MOTOR
2	92-625-188-020	1D	GEAR(A)
3	92-625-544-010	1H	COVER
4	92-625-187-010	1B	RING CENTER
5	92-625-191-010	1B	SPRING COMPRESSION
6	98-848-127-110	2G	OPTICAL PICK UP KSS-210A
7	94-917-565-010	2M	SHAFT SLED
A	87-261-032-210	0E	V+2-3

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビスセレート	SCRW,SERRART

サービス技術ニュース	
番 号	連絡内容
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アイワ株式会社
AIWA CO.,LTD.

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Tokyo Japan

〒110　東京都台東区池之端１－２－11　　☎ 03 (3827) 3111　(代表)

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